Service Man

Omnivision VHS





Video Cassette Recorder

- P PV-8400
- P PV-8400-K
- P PV-8401
- P PV-8450
- P PV-8450-K
- **Q VHQ840**
- **Q VHQ860**

SPECIFICATIONS

ITEM	SPECIFICATION	1	2	ITEM	SPECIFICATION	1	2
	Source: 120V AC ± 10%, 60 Hz ± 0.5%	0	0	RF Out	CH 3/CH 4 switchable 72 dBμ (open voltage) 75Ω unbalanced	0	0
Power	Consumption: Approx. 18 watts(Power on), Approx. 4.1 watts(Power off) Approx. 23 watts(Power on), Approx. 4.1 watts(Power off)	0	-		Broadcast Channels: VHF 2 ~ 13, UHF 14 ~ 69		
	Head: 4 rotary heads helical scanning system	0	0		CABLE Channels: Midband A through I (14 ~ 22)		
Video	Input Level: VIDEO IN Jack (Phono type) 1.0 Vp-p 75Ω unbalanced Output Level: VIDEO OUT Jack (Phono type) 1.0 Vp-p 75Ω unbalanced Signal-to-Noise Ratio: SP: more than 43 dB LP/SLP: more than 41 dB Horizontal Resolution: Color/Monochrome: more than 230 lines	0	0	Tuner	Superband 3 Infodgri W (23 ~ 35) Hyperband AA ~ EEE (37 ~ 64) Lowband A-5 ~ A-1 (95 ~ 99) Special CABLE channel 5A (01) Ultraband 65 ~ 94, 100 ~ 125	0	С
	Head: Normal Mono: 1 stationary head Hi-Fi Stereo: 2 rotary heads	Prox. 4.1 watts(Power off) Prox. 4.1 watts(Powe	0	0			
	Input Level: AUDIO IN Jack (Phono type) -10 dBv $50 \mathrm{k}\Omega$ unbalanced Output Level: AUDIO OUT Jack (Phono type) -8 dBv 600Ω unbalanced AUDIO OUT Jack (Phono type) -8 dBv $1 \mathrm{k}\Omega$ unbalanced		0	Tape Speed	SLP: 7/16 i.p.s (11.12 mm/sec) Record/Playback Time: 8 Hrs with 160 min. type tape used in SLP mode	0	0
	Frequency Response: Normal Mono: SP: 100 Hz ~ 8 kHz				FF/REW Time: Less than 3 min. (120 min. type tape)		
Audio	LP: 100 Hz ~ 6 kHz SLP: 100 Hz ~ 5 kHz Hi-Fi Stereo: SP/LP/SLP: 20 Hz ~ 20 kHz		0	Carres at	Tape width 1/2" (12.7 mm) high density tape	0	0
	Signal-to-Noise Ratio: Normal Mono: SP: more than 42 dB		0			0	C
	Wow and Flutter: Normal Mono: SP: Less than 0.2% WRMS	0	0	Dimension	14-15/16"(380 mm) (W) X 3-2/3"(93 mm) (H) X 12-3/16"(310 mm) (D)	0	c
,	SLP: Less than 0.3% WRMS Hi-Fi Stereo: Less than 0.015% WRMS		olo			C	

^{1.} PV-8400/PV-8400-K/PV-8401/VHQ840

2. PV-8450/PV-8450-K/VHQ860

Weight and dimensions shown are approximate. Designs and specifications are subject to change without notice.



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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Use Marks shown in the chart below to distinguish the different models included in this Service Manual.

MODEL	MARK	MODEL	MARĶ
PV-8400	Α	PV-8450	Е
PV-8400-K	В	PV-8450-K	F
PV-8401	С	VHQ860	G
VHQ840	D	NOT USED	Z

TABLE OF CONTENTS

OPERATION GUIDE	1-7
DISASSEMBLY/ASSEMBLY PROCEDURES Disassembly/Assembly Procedures of Cabinet	2-5
ADJUSTMENT PROCEDURES Service Fixtures and Tools	18
SCHEMATIC DIAGRAMS AND CIRCUIT BOARD LAYOUS Schematic Diagram and Circuit Board Layout Notes	3-1 3-2 3-4 3-1 3-1 -1 -1 -1 -2 -2

	Circuit Board Layout
	Main Child C.B.A. 4-2 Main (Power Supply/Signal Process /Audio/Hi-Fi Audio/System Control /Servo/Operation) C.B.A. (D,G) 4-5 Head Amp C.B.A. 4-9 Hi-Fi Audio/Video Head Amp C.B.A. 4-9 Capstan Stator Unit 4-11 Junction C.B.A. 4-11 Loading Motor P.C.B. 4-12 Audio Control Head P.C.B. 4-12
В	Power Supply Block Diagram
E	XPLODED VIEWS 1. Mechanism (Top) Section
F	REPLACEMENT PARTS LISTS Before Replacing Parts, Read the Following

SAFETY PRECAUTIONS

GENERAL GUIDELINES

1. IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by in the Schematic Diagrams, Circuit Board Layout, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

2. An Isolation Transformer should always be used during the servicing of VCR whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks. It will also protect VCR from being damaged by accidental shorting that may

occur during servicing.

 When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.

 After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are prop-

erly installed.

After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

Unplug the AC cord and connect a jumper between the two

prongs on the plug.

2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1M ohm and 5.2M ohm. When the exposed metal does not have a return path to the chassis, the reading must be infinity.



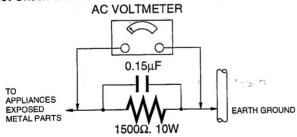


Figure 1

LEAKAGE CURRENT HOT CHECK (See figure 1.)

 Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.

 Connect a 1.5K ohm, 10 watts resistor, in parallel with a 0.15 microfarad capacitor, between each exposed metallic part on the set and a good earth ground, as shown in figure 1.

 Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.

Check each exposed metallic part, and measure the voltage at each point.

Reverse the AC plug in the AC outlet and repeat each of the above measurements.

6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks. Leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

PREVENTION OF ELECTRO-STATIC DISCHARGE (ESD) TO ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits, some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electrostatic discharge (ESD).

Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should remove electrostatic charge for potential shock reasons prior to applying power to the unit under test.

After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or

exposure of the assembly.

 Use only a grounded-tip soldering iron to solder or unsolder ES devices.

 Use only an antistatic solder removal device. Some solder removal devices not classified as "antistatic (ESD protected)" can generate electrical charge sufficient to damage ES devices.

Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.

5. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).

 Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the

device will be installed.

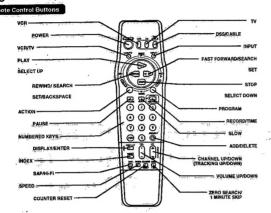
CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

"NOTE to CATV system installer:

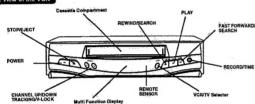
This reminder is provided to call the CATV system installer's attention to Article 820-22 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical."

OPERATION GUIDE

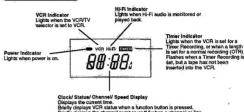


Location of Controls (For Models PV-8400/PV-8400-K/PV-8401/PV-8450/PV-8450-K)

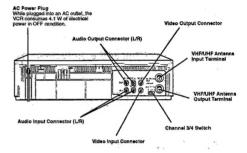
Front View of the VCR



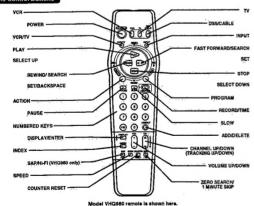
Multi Function Display



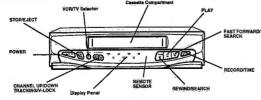
Rear View of the VCR



Location of Controls (For Models VHQ840/VHQ860)

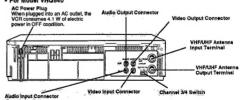


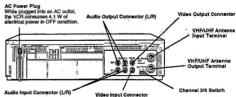
Front View of the VCR



Rear View of the VCR

For Model VHQ840

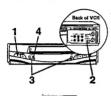






One Time VCR Setup

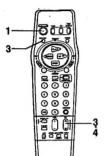
nt: if the remote control POWER, ACTION, PROG, CHAFF, INDEX, or ADD/DLT button does not work when pressed, press the VCR button on the remote and by the button again.



To Set the Language, Channels, and Auto Clock

1 Turn the TV and VCR on.

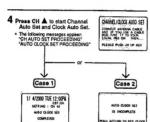
2 Tune your TV to the VCR output channel (the same one you set on the back of the VCR: CH3 or CH4).



Using ▲▼◀▶ keys Whenever a menu or program acreen is displayed, the PLAY.

STOP, REWIND, and FF buttons on the remote control function as ▲∀⇒ only. For play, stop, rewind, and last forward functions, use the buttons on the VCR. 3 Press CH & for English on-screen displays. Or, press CH ▼ for Spanish on-screen displays.

SELET LANGUAGE
PUSH YOR ON A BHOK
OPPRISE YOR ON YESP
AND YOR ON YESP Or, press VCR/TV for French



If you are using the CABLE/DSS BOX > VCR > TV connections to the cable box output channel will be placed in mamors.

ACTION TO SET CL

ST UP YEARING

SELECT: 4 Y KEY SET : 1 KEY SHD (ACTION 4)

CHANNEL/CLOCK AUTO SET

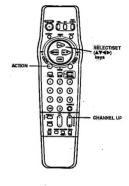
Case 1

If the displayed time is correct, press CH & to exit.

This concludes one time VCR setup.
See important note at the bottom of this page

- If the displayed time and DST, are not correct if you happen to live close to two time zones, th VCR have recognized the PBS channel (setting channel) in the wrong time zone. Please do the following to correct the sibilation.
- ake a note of the SETTING:CH n
- b Delete the setting channel from the VCR ch memory. (See 'To Add or Delete a Channel section.)
- c Press ACTION to display the menu
- d Press ▲▼ to select "SET CLOCK," and then press ▶ to display the "SET CLOCK" somen.
- Press ▲▼ to select "AUTO CLOCK SET," and then press ► to display the "CLOCK AUTO SET"
- Press CH & to start Clock Auto Set.

 If you use a cable box and have multiple PBS stations ture the cable box to a different PBS station and try auto clock set using the menu.



Case 2

If the screen above appears, auto clock set is not available in your area. Please set the clock manually as described below

Press ACTION to display the "SET CLOCK" screen.

Press ▲▼ and ◀► to select and set the mon date, year, time, and D (Daylight Saving Time)

To Make Corrections, repeatedly press ◀ ▶ to move the cursor to the incorrect entry and make the correction.

1/ 4/2000 TUE 12:00

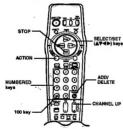
Press ACTION twice to start the clock and exit



IMPORTANT NOTE FOR AUTO CLOCK SET

- Auto clock set will be performed when he VCR is turned off the first time each day. If you use a cable box and you want auto clock set to be performed, the cable box must be left on and tuned to the PBS channel before the VCR power is furned of.

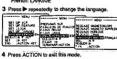
One Time VCR Setup



To Change On-Scre

1 Press ACTION to display the menu.

2 Press ▲▼ to select the language. English: LANGUAG Spanish: IDIOMA French: LANGUE



To Add or Delete a Channel

Select a channel using the NUMSERED keys to add or CH ▲/▼ to delete.

2 Press ADD/DLT to add or delete the channel. To select a channel once it's deleted, use the NUMBERED keys on the remote control. To Replace Channels in Memory In case you have cable installed, etc.

Press ACTION* to display
the menu.



Press ▲▼ to select "AUTO SET," and then press ► to display the "CHANNEL CLOCK AUTO SET" screen

COMECT ANTENNA CARLE AND IF YOU USE A CARLE BOX NAC IT TO YOUR LOCAL PES ON THEM. Clock Auto Set will be performed when channels are replaced in memory. To cancel, press STOP when "AUTO CLOCK SET PROCEEDING" appears on so

To Set or Reset the Clock in case the clock is wrong, or a power

1 Press ACTION to display the menu. 2 Press ▲▼ to select "SET CLOCK," and then press ► to display the "SET CLOCK" screen.

3 Press ▲▼ to select
"MANUAL," and then p
➤ to display the SET
CLOCK screen.

SELECT & V CIV SET 4 P CET END ACTION For Auto Clock Set, select AUTO CLOCK SET, and then press CH ▲ in step 3.

When Using the 100 key

When selecting CABLE channels 100 to 125 with the NUMBERED keys, first press the 100 key and then enter the remaining two digits. For example, to select channel 125: Press NUMBERED keys 100, then 2, then 5.

This VCR will accurately maintain its calendar up to Dec, 31, 2096, 11:59PM.
Normal TV or Cable channels are automatically selected and placed in memory depending on how you vote that is booked up.

On-Screen Displays (OSD)

When a function button is pressed, e.g. PLAY, or

Menu Screen

1 Press ACTION to display the menu.

2 Press ▲▼ and ► to make your selection.

To get the most from each feature, please read the Operating Manual hotors afternating processing the process of the proc

VCR Status & Clock Display

Press DISPLAY to display or remove the

Blank Tape/ No Video Signal Indication ver a blank section of a tape comes up in ode, or when the selected channel has no ast signal with the Blue Back ON/OFF o set to ON, the TV screen will turn solid

08

Warning and Instruction Displays These displays will alort you of a provide further instructions.

NO ON FOUND PLEASE CHECK ANTENNA CARLE CONNECTION THE FUSH YOR CH UP NEY AG If no active channels are for for CHANNEL MEMORY...

If you attempt to set or revie a Timer Recording and the Clock is not set...

After a Timer Program has

If you press PLAY, If or REC on the remo control or VCR with

TO CANCEL TIMER REC

FLEN WORLDEF

If you press POWER or STOP during a Timer Recording... (visible in VCR mode only)

VICEO HEADS WAY NEED CLEANING PLEASE INSERT HEAD CLEANING CALLETTE OR REFER TO MAKING

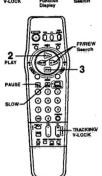
HOW TV/GARE/DSS NOT PLEASE PLUM YOR KEY ON RENOTE



Playback a Tape

POWER, ACTION, PROG, CHA/V, INDEX, or ADD/DLT button dised, press the VCR button on the remote and by the button again.





1 Insert a cassette.

• VCR power comes on automatically.

• VCR* lights in the Multi Function Display.

Press PLAY on the remote or VCR to start playback.
 Playback begins automatically if cassalle has no record lab.

3 Press STOP on the remote or VCR to stop playback.

• To rewind the tage, press REW.

4 Press STOP/EJECT on the VCR to eject the cassette.

Press REW or FF during playback to search for a scene.

Search speed or SP mode tapes is 7 times and SLP mode tapes is 21 times the normal speed.

Some noise bors will appear during search.

Special Effects During Playback

Slow Motion Playback
Press SLOW to start slow motion playback during playback
Press PLAY or SLOW to release.

SHB (Freeze) Frame Picture
Press PAUSE to freeze and release the picture.

To teduce picture noise, first press SLOW. Then, use CH (TRACK)

To teduce picture noise, first press PAUSE.

Frame by Frame Advance
In Still mode, hold down SLOW to advance the still picture one frame at a time. Press PAUSE to release.

Features for a Quality Picture

Digital Auto Picture
This feature automatically controls the video output signal for less noise depending on the tape condition.

Digital Auto Tracking
This teature continuously analyzes the signal and adjusts for

Warust Tracking Control (to reduce picture noise)

Warust Tracking Control (to reduce picture noise)

Use during Playback and Slow Motion mode to reduce picture

riolse, Press CH (TRACKING) ▲▼ during playback until the

picture clears µ. To return to Auto Tracking mode, press POI

of and then on again.

Record On a Tape



8000

 Insert a cassette with record tab.
 VCR power comes on automatically. 2 Press CH ▲/▼ or NUMBERED keys to select a channel.

• Or, press CHANNEL AF on the VCR.

• Holding down CH AF will increase the channel search speed.

• To repeat of the an exclude source, presch AF or shiPUT to select LINE.

Press SPEED to change the recording speed.

• SP = Standard Play,
LP = Long Play
SLP = Super Long Play

 Press REC/TIME on the remote control or VCR to start recording.
 To edit out unwanted portions, press PAUSE to pause the IBM TECUTIONS
To edit out unwented portions, press PAUSE to intercent progress.
To edit out unwented portions, press PAUSE to intercent progress.
To refesse, press PAUSE again.
(After the VCR has been in Pause mode for 5 minutes, it will stop automatically to protect the tape and video head.)

One Touch Timer Recording (OTR)
The VCR starts recording and turns itself off at a greet time.
In stop 4, press RECITIME repetately to set the length of the recording. Each press will change the stop time as shown.

"TIMER" lights in the Multi Function Display.
The remaining recording time can be displayed by press
DISPLAY in OTR mode.

5 Press STOP to stop recording.

Record One Program While Watching Another

Press VCR/TV while recording is in progress to turn off the VCR indicator in the Multi Function Display.

CHANNEL

Selecting Channels at the VCR

- Turn your TV and VCR on.
 VCR Indicator lights on the Multi Function Display, if indicator doesn't light, press VCR/TV to furn it on.
- 2 Use CH A/▼ on the remote control or VCR to
- To switch back to TV channel selection, press VCR/TV to turn VCR indicator off, or simply turn the VCR power off.

Timer Recording

Important: If the remote control POWER, ACTION, PROG, CH≜/♥, INDEX, or ADD/DLT button does not work when pressed, press the VCR button on the remote and try the button again.

check list before you begin.

Al connections are made.

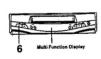
That You've are made.

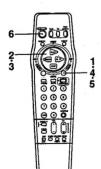
That You've are made.

That You've are made.

That You've are made.

The work of the made.





1 Press PROG* to display the program screen.

If a program is stready in memory, press AV
and > to select an unused program number.



8-9.....31-1-2....6-7 SELECTA/▼ Selection Order DA WEEKLY WEEKLY __ WEEKLY __ WEEKLY __

3 Press AV and Ab to select and set each of the remaining Items at right.

Remaining items to be est:

- START time
- STOP time
- CH(annel) number, or LINE
for outside source recording
- Category (NA (not applicat
SPORTS, MOVIE, COMED
MUSIC, DRAMA)
- Speed (SP, LP, SLP)

To Make Corrections
Repeatedly press ➤ to move the cursor to the right, or ◀ to move to the left to the incorrect entry and make the correction



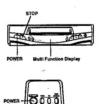
To Enter More Programs

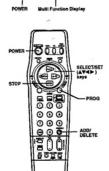
Press AV and be to select and set a blank
program number, and then repeat steps 3 and 4.

5 Press PROG to exit this mode.

Press POWER off to set the timer.
 When recording programs via a cable box make sure the cable box is left ON and tuned to the desired channel.







Cancel a Timer Recording: (Recording is in progress)

Press POWER and then STOP within 10 seconds to cancel the timer recording.

The TIMER indicator goes out in the Multi Function Display.

Replace Program Contents: (Recording is not in progress)

1 Press PROG to display all currently set programs.

2 Press ▲▼ and ▶ to select and set a program number.

4 Press PROG twice to exit this mode.



Review or Clear Program Contents: (Recording is not in progress)

1 Press PROG to display all currently set programs.

3 Press A▼ to select a program number

4 Press ADD/DLT if you want to clear the program.



SALECT 1-SA Y ASY SALECT 1-SA Y ASY SATER IS REY SAC PANN SEY

P DI START STOP CHI SPG 2 8 10;10;412:10;2125 SP 3.30 8:00P 9:10;2 10 SP 4 SD 9:00P19:00P L LP



Timer Recording Using VCR Buttons (Make sure a cassette tape is not inserted in the VCR.)

(Make sure a cassatis tape is not inserted in the VCR.)

1 Hold down STOPALECT and pees REW to enior the Program mode

2 Press FF or REC/TIME repeatedly or hold down to make selections.

3 Press PLAY to sat the Rem and move on.

1 on make corrections, repeatedly press PLAY to move the cursor to the right of Rem and the correction.

5 Press STOPALECT and REW tegether to display program contents after at lemms have born entired.

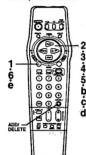
1 You cannot deep reportant with the VCR bostons.

5 Hold down STOP/EJECT and press REW, (relation release STOP/EJECT) to exit this mode.

6 insert a cassette with record tab and press POWER off to set the ti

Special VCR Features

to if the remote control POWER, ACTION, PROG, CHA/♥, INDEX, or ADD/DLT button does not work when pressed, press the VCR button on the remote and by the button again. **Channel Caption Preset Caption** You cannot channel names; i.e. ASC, CBS; so that when selected, the channel name and number appear on-screen for easy identification. You can go with preset names (up to 24), or manually create your own (up to 1). Note: You will need a list of channel received in your area and the channel numbers you receive them on. 1 Press ACTION* to display the menu. 2 Press ▲▼ to select "SET UP CHANNEL, and then press ▶ to display the "SET UP CHANNEL" screen. 8000



3 Press ▲▼ to select "CHANNEL CAPTION," and then press ➤ to displatine "CHANNEL CAPTION" screen. 4 Press A▼ to select "PRESET CAPTION,"
and then press ▶ to display the
"PRESET CAPTION" screen.
• You can set up to twenty-four channel captions.
If you want to set a station name other than
these, go to the "Manual Caption" section below. 509 -- PBS --CSS -- CWA --FOX -- ESPN --

Manual Caption

b in step 4, press ▲▼ to select "MANUAL CAPTION," and then press ▶ to display the "MANUAL CAPTION"

C Press ▲▼ to select "CH NUMBER," and then press ➤ to move the shaded area to right

Press ACTION four times to exit this mode and return to the normal screen.

Check list before you begin.

Time Stamp Feature

1 Press ACTION to display the ma

2 Press AV to select "SET UP FEATURE," and then press display the "SET UP FEATURE"

3 Press ➤ to select "ON" or "OFF."

• When "OFF is selected, the program data is written on the tape, but will not be displayed for the first 5 seconds of playback.

4 Press ACTION twice to exit.

3.6.0

0000

000 000 000



Blue Back ON/OFF Feature

a Press ACTION to display the menu.

d Press ACTION twice to exit.

Special VCR Features (continued)

Timportant: If the remote control POWER, ACTION, PROG, CHÂ▼, INDEX, or ADI/DLT button does not work when pressed, press the VCR button on the remote and by the button point.

connections are made.
R is plugged in.
Is turned on and set to the VCR arrest (CH 3 or 4).

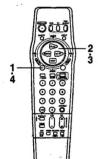
VCR Lock Feature

n activated, this feature prohibits all operations except for timer rding and tape eject. This feature may be used to keep young of operating the VCR.

on REC/TIME on the

To Cancel the VCR Lock feature.

VCR Lock mode is cancelled automatically after about 24 hours as long as the clock is set.



4 Press ACTION twice to exit this

SELECT & V XEV SET :- XEY EAD ACTION :

0000

000



MTS Broadcast/VHS Hi-Fi Stereo System

(For Models PV-8450/PV-8450-K/VHQ 860)

Receivable Broadcast Types

The following are possible audio broadcast types and on-screen displays. The signal being received is indicated with an "\$" mark while the selected a mode is indicated with an arrow.

Press DISPLAY to display the broadcast signa currently being received.

MTS Stereo broadcast
Multi-channel Television Sou
modicast. Select STEREO a
lia stareo broadcast is week a



and





STEREC SAP SONO 4



Warning Beeper Feature
When you select BEEPER ON, a short warning will invalid entry or incomplete operation is made.



MTS Broadcast/ VHS Hi-Fi Stereo System (continued)

(For Models PV-8450/PV-8450-K/VHQ 860)

- n recording, the selected broadcast sound is always recorded on the left and right Hi-Fi tracks as well as primat monaural track. This means your tapes can be played back on Hi-Fi as well as non-Hi-Fi VCRs.



Audio Mode for Recording

1 Press SAP/Hi-Fi repeatedly (each press within 5 seconds) to select the desired audio mo (STEREO, SAP, or MONO).

The arrowind your selection

2 Do a recording. See the "Record On a Tape" section

Audio Mode for Playback

a Playback the tape. See the "Playback a Tape" section

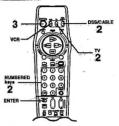
D Press SAP/Hi-Fi repeatedly (each press within 5 seconds) to select the desired audio mode (HIFI or NORMAL).





Multi-Brand Control Feature

...01, 0201, 0203 15, 16, 17



Multi-Brand Control Setup

- 1 Find your TV or Cable Box or DSS Box Brand Code Number from one of the charts on this page
- 2 Hold down TV or DSS/CABLE. Use the NUMBERED For code numbers 100 or greater, first press the 100 key. Then enter the remaining digit. E.g. for 102, press 100; then press 2.
- 3 To confirm that the correct code was entered press POWER to turn your TV or Cable Box or DSS Box On/Off.

Multi-Brand Control Feature (continued)

Using the Multi-Brand Control

Once the remote control has been properly set up, you can a depending on which functions you wish to control.

Press VCR or TV or DSS/CABLE on the remote control to select the desired mode (See below for the controllable functions of each mode.)

NOTE: in TV or DSS/CABLE mode, it may be necessary to press ENTER after pre-keys for channel selection.

VCR Mode

In VCR mode, the foll buttons are available. VCB All function buttons.

in DSS/CABLE mode, the toll buttons are svallable.





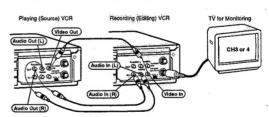




Some TV, Cable Box and DSS Box brands require you to turn on the power may
 Not all functions listed may be controlled by this remote control.

Copying Your Tapes (Dubbing)

Connections you'll need to m





4 Press PLAY on the Playing VCR.
Press PAUSE at the desired starting point

5 Press REC on the Recording VCR, and then press PAUSE immediately thereafter.

6 Press PAUSE on both VCRs at the same

7 Press STOP on both VCRs to stop copy

To Monitor Dubbing on Your TV 1 Turn your TV on and tune to the Reco VCR channel (CH3 or CH4).

2 Set the VCR/TV Selector on the Re-

Selecting the Input Mode

ss INPUT, a display will change in the order below

Press CH ▲/▼. (CABLE) (TV)



SERVICE NOTES

SIMPLIFIED FAULT FINDING DATA

(With F.I.P. Model)

Simplified Self-Diagnostic System facilitates finding the cause of the fault. A 4 digit fault code will be displayed in F.I.P. The Simplified Fault finding data is memorized for approximately 12 hours. This data is cleared after it is displayed and then, the POWER button is pressed back on.

 With power turned off, press PLAY button on VCR (for over 3 seconds if VCR is not in shut off condition).

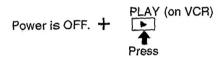


Fig. 1-1

Fault code (4 digit number) will be displayed in F.I.P. as shown

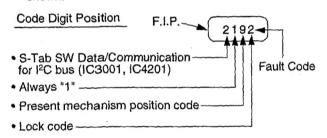


Fig. 1-2

Explanation of Codes	C	od	e N	0.
S-Tab SW. Data/Communication check for I ² C bus (IC3001, IC 4201) (Refer to Fig. 1-4.)	1 ~ 8			
Not applicable		1		
Present Mechanism Position Code Mechanism Position is indicated. (Refer to Fig. 1-5.)			123456789ABCD	
Lock Code (See Note 1.) VCR is not in shut-off condition. Reel lock. Cylinder lock. Exceeds loading/unloading time. (Mechanism Lock) Exceeds Cassette loading/unloading time. (Cassette Lock) Tape Unloading (direction) Tape Loading (direction)			1 2	0 1 2 3 4 4

Fig. 1-3

S-Tab SW. condition	Communication check for I ² C bus (IC6001 ←→ IC3001)	Communication check for I ² C bus (IC6001 ← IC4201)	Code No.
	OK	OK	1
ON	OK	NG	2
-,-	NG	OK	3
	NG	NG	4
	OK	OK	5
OFF	OK	NG	6
J. 1	NG	OK	7
	NG	NG	8

Note: For Normal Audio models, only even code No.s will be displayed in F.I.P. because IC4201 (Hi-Fi Audio IC) is not used.

Fig. 1-4

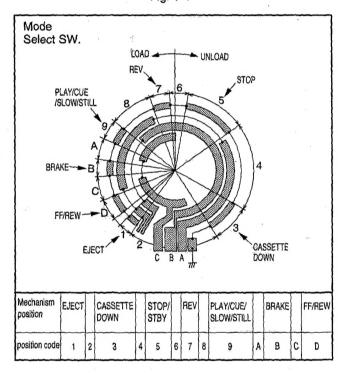
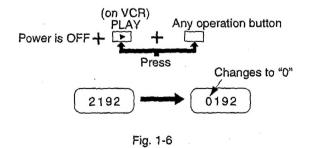


Fig. 1-5

 While pressing down PLAY button on VCR with power turned off, press any operation button on either VCR, or remote to detect that a key has been pressed.
 The 1st digit changes to "0" only when key is detected.



Note:

 When 1 to 4 listed in Lock code occurs, the VCR goes into VCR shut-off condition. VCR stops and all VCR function buttons except for power become non-operational.

(Without F.I.P. Model)

Simplified Self-Diagnostic System facilitates finding the ca

Simplified Self-Diagnostic System facilitates finding the cause of the fault. Rec LED and/or Timer LED will lights up or flash.

The Simplified Fault finding data is memorized for approximately 12 hours. This data is cleared after it is displayed with the PLAY button and then the Power button is pressed back on.

1. With power turned off, press PLAY button on VCR (for over 3 seconds if VCR is not in shut off condition).

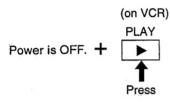


Fig. 1-7

2. Fault indication with the LED will be displayed .

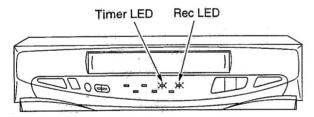


Fig. 1-8

Information	LED				
Takeup Reel Lock	Timer LED lights up				
Cylinder Lock	Rec LED lights up				
Exceeds Loading/Unloading Time	Timer and Rec LED lights up				
Exceeds Cassette Loading/Unloading Time	Timer and Rec LED flash				

Fig. 1-9

SERVICE POSITION

The Basic Service Position does not require the use of Extension Cables. However, for more extensive servicing, Extension Cables should be used.

1. Basic Service Position

Service Position	Purpose
Service Position (1)	Mechanism check Mechanical adjustment Electrical adjustment
Service Position (2)	Main C.B.A. check

Service Position (1)

Remove Top Cover and Front Panel Ass'y.

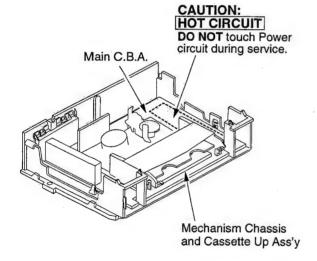


Fig. 2-1

Service Position (2)

Remove Top Cover and Front Panel Ass'y. Then, remove VCR Chassis Unit out of Frame.
Place VCR Chassis Unit as shown.

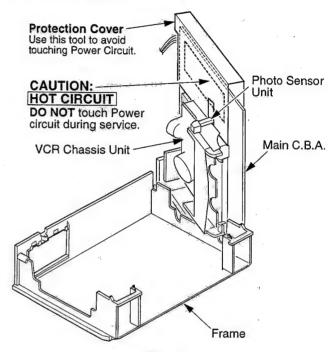


Fig. 2-2

CAUTION:

HOT CIRCUIT (Primary circuit) exists on the Main C.B.A. Use extreme care to prevent accidental shock when servicing.

Note:

When disassembling/assembling, refer to "Disassembly/ Assembly Procedures of Cabinet" section.

To avoid touching power Circuit, following Tool (Protection Cover) is recommended. How to make the Protection Cover: 1. Cut a Cassette Tape Case as shown. Cut Cut Cut Fig. 2-3 2. Cover the Power Circuit portion on Main C.B.A. with it.

The Protection Cover is not supplied.

2. Service Position with Extension Cable Kit

Service Position (1)

In Service Position (1), mechanism check from the Bottom Side of Mechanism Chassis and Capstan Stator Unit (Capstan Motor Drive, Loading Motor Drive Circuit) check with power on condition can be performed.

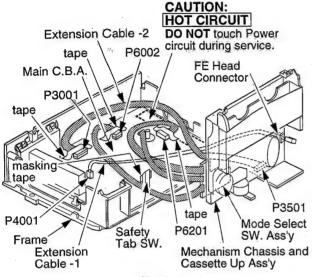


Fig. 2-4

Service Position (2)

In Service Position (2), Main C.B.A. check with power on condition can be performed.

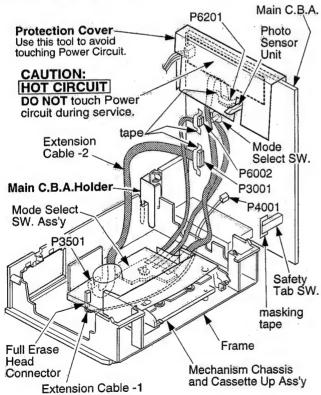


Fig. 2-5

Extension Cable Kit (VUZS0002)

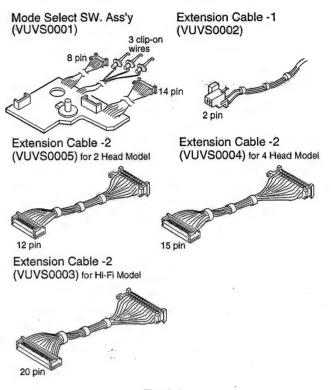


Fig. 2-6

Note:

3 types of Extension Cable -2 are included in this kit. Since there is a difference in the number of P3501 Head Amp C.B.A. pins between 2 Head, 4 Head, and Hi-Fi models, be sure to use the proper cable.

How to place the unit in the Service Position (1)

- Remove Top Cover, Front Panel Ass'y, Mechanism Chassis, and Cassette Up Ass'y.
- 2. Connect the Extension Cables as follows:
- Extension Cable -1: Full Erase Head Connector on the Mechanism Chassis Unit ~ P4001 on the Main C.B.A.

Note: No change in performance if pins are reversed.

- Extension Cable -2: P3501 on the Head Amp C.B.A.
 P3001 on the Main C.B.A.
- Mode Select SW. Ass'y: a) 3 Clip-on Wires ~ Test Points on the Main C.B.A.

Red Wire ~ TP6017 Orange Wire ~ TP6018 Yellow Wire ~ TP6019

- b) 8 Pin Connector ~ P6002 on the Main C.B.A.
- c) 14 Pin Connector ~ P6201 on the Main C.B.A.
- d) Set Mode Select SW. on the Mode Select SW. Ass'y to EJECT position and install onto Mechanism Chassis

- Place Mechanism Chassis and Cassette Up Ass'y as shown.
- Secure the Extension Cables with tape as shown. When recording, cover the Safety Tab SW. with masking tape to turn this SW. on.

Note:

To avoid damaging the connectors on Main C.B.A., it is necessary to secure connectors with tape as shown.

- Set Mode Select SW. on the Main C.B.A. to Service Position.
- 6. Plug the AC plug into an AC outlet.
- 7. Insert a cassette.

The power comes on, the tape is fully loaded, and the unit goes into the STOP Mode.

- Place a jumper between TP6001 and GND to place the unit in Service Mode.
- Check and/or repair the unit.
- 10. Press the STOP/EJECT button to eject the cassette.

Note:

When inserting a cassette again, remove the jumper between TP6001 and GND and insert the cassette. Then, reconnect the jumper.

 After servicing, remove the jumper between TP6001 and GND to release the unit from Service Mode.

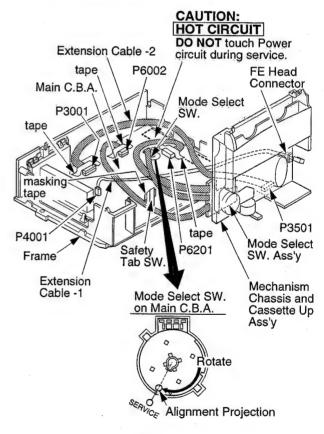


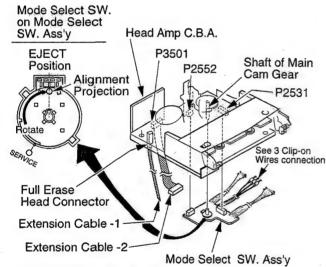
Fig. 2-8

CAUTION:

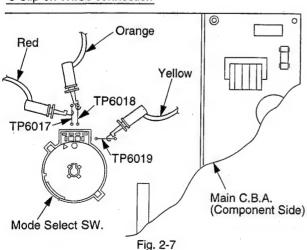
HOT CIRCUIT (Primary circuit) exists on the Main C.B.A. Use extreme care to prevent accidental shock when servicing.

Note:

When disassembling/assembling, refer to "Disassembly/ Assembly Procedures of Cabinet" section.



3 Clip-on Wires connection



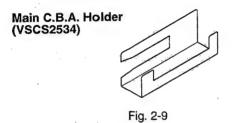
How to place the unit in the Service Position (2)

1. Perform Step 1 through Step 4 in "How to Place the unit in the Service Position (1)."

2. Place Main C.B.A. using Main C.B.A. Holder as shown.

Note:

The Main C.B.A. Holder can be used to stabilize Main C.B.A. during Service.



Cover the Power Circuit portion on Main C.B.A. with Protection Cover as shown.

Note:

The Protection Cover is not supplied.

4. Perform Step 5 through Step 11 in "How to Place the unit in the Service Position (1)."

CAUTION:

HOT CIRCUIT (Primary circuit) exists on the Main C.B.A. Use extreme care to prevent accidental shock when servicing.

Note:

When disassembling/assembling, refer to "Disassembly/ Assembly Procedures of Cabinet" section.

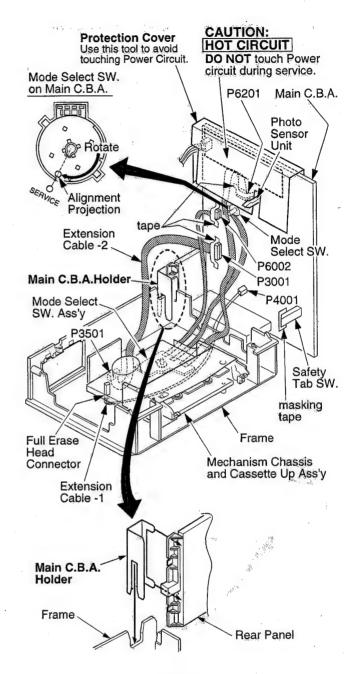


Fig. 2-10

HOT CIRCUIT

Primary circuit exists on the Main C.B.A. This circuit is identified as "HOT" on the C.B.A. and in the Service Manual. Use extreme care to prevent accidental shock when servicing.

SERVICE MODE

In order to inhibit detection of the Supply & Takeup Photo Transistors, Reel Sensor, and Cylinder Lock, press VCR/TV button and CH down button together on VCR for over 5 seconds in power off condition.

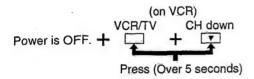


Fig. 3

The power comes on and the unit goes into service mode.

In this mode, Mechanism movement can be confirmed. When removing Cassette Up Ass'y, it can be confirmed without a cassette.

To release from this mode, press POWER button off or disconnect AC Plug.

(Alternative method) Ground the TP6001.

INSTALLATION OF FRONT PANEL ASS'Y CAUTION

- Swing the Cassette Door -Lid all the way open until the Cassette Door tab clears the Opener Lever.
- 2. Make sure that all locking tabs are aligned properly. Then, press the Front Panel straight in.

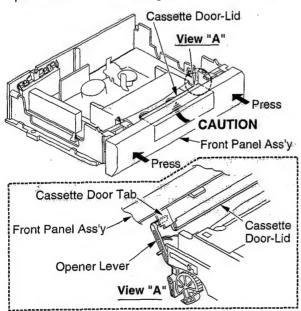


Fig. 4

METHOD FOR LOADING/ UNLOADING OF MECHANISM

(Manual Method)

Turn the Main Cam Gear counterclockwise (for loading) or clockwise (for unloading) using needlenose pliers etc.

Note:

Do not use this method if Mechanism is jammed or locked.

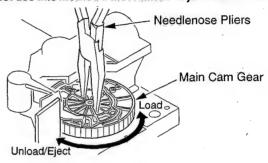


Fig. 5-1

(Electrical Method)

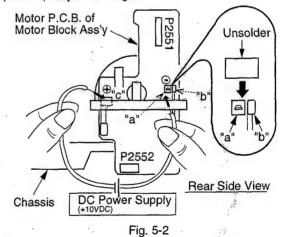
Remove the solder as shown and apply +10.0 VDC Power Supply (DC + to Portion "a," DC - to Portion "c").

Note:

Be careful not to let the DC Power Supply Unit GND contact the chassis GND. This may damage the Loading Motor Drive IC (IC 2501).

Be sure to apply DC + to Portion "a" of Motor P.C.B.

If DC + is applied to Portion "b", the Loading Motor Drive IC
(IC2501) may be damaged.

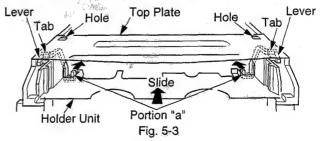


1 19.

Note:

Do not forget to solder Portions "a" and "b" after loading/unloading operation is completed.

When loading without a cassette, press Portion "a" on both sides of the Holder Unit of Cassette Up Ass'y so that the Levers clear the Tabs and Holes.



HOW TO REMOVE A JAMMED TAPE

Manual Method

When a tape jam is encountered, check the tape loading condition and use the following procedure to remove a tape jam.

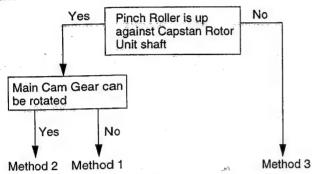


Fig. 6-1

Method -1:

 While releasing 2 Locking Tabs (A) of Opener Piece, pull the Opener Piece up as far as you can.

 Move the pin of Pinch Arm Unit out of the groove of the Main Cam Gear so that the Pinch Roller is separated from the shaft of the Capstan Rotor Unit.

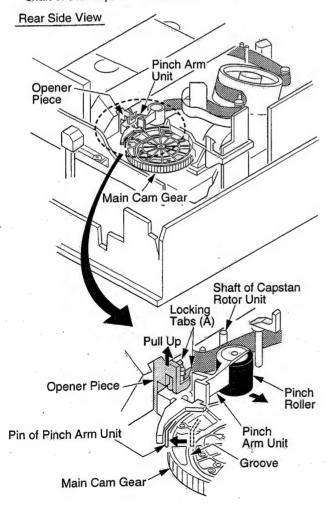


Fig. 6-2

- 3. Remove the tape from the tape path.
- Rewind the tape into the cassette by rotating the Center Clutch Unit counterclockwise.
- 5. Unhook Spring (A) of the Drive Rack Unit.
- 6. Remove Screw (A).
- Lift the Drive Rack Unit up so that the slot clears the guide tab. While pulling the Drive Rack Unit out far enough so that it clears the Drive Rack Arm, slide the Drive Rack Unit as indicated by the arrow to remove the cassette tape from the Cassette Up Ass'y.
- 8. Check the cause of mechanical trouble and repair.

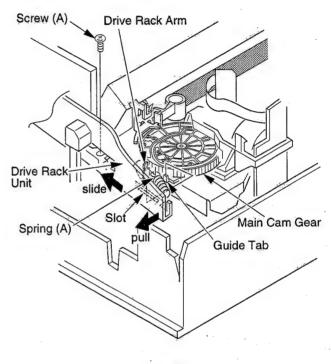


Fig. 6-3

Method -2:

- Rotate Main Cam Gear clockwise with needlenose pliers, etc. so that the Pinch Roller is separated from the shaft of the Capstan Rotor Unit.
- 2. Perform Step 3 through Step 8 of Method -1.

Method -3:

1. Perform Step 3 through Step 8 of Method -1.

Note:

After repairing mechanical trouble, make sure that all gear alignments are correct, especially the Wiper Arm Unit and Drive Rack Unit of Cassette Up Ass'y. (Refer to "**EJECT** Position confirmation" in Disassembly/Assembly Procedures of Mechanism.)

Electrical Method

Electrical method can only be performed when the mechanism is moved by rotating the Main Cam Gear.

CAUTION:

If loading does not start in approx. 2 seconds after DC Power Supply is applied, DO NOT continue to apply DC Power Supply. Instead, perform "Manual Method."

Method -1:

- Remove the solder as shown and apply +10.0 VDC Power Supply (DC + to Portion "a," DC - to Portion "c").
- When the Loading Posts reach the fully unloaded position, remove the Power Supply.

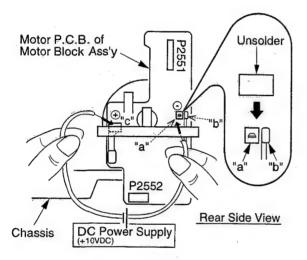


Fig. 7-1

Note:

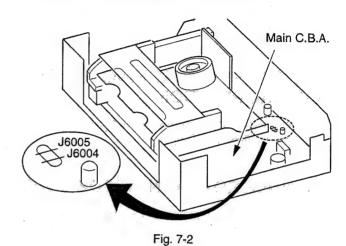
Be careful not to let the DC Power Supply Unit GND contact the chassis GND. This may damage the Loading Motor Drive IC (IC 2501).

Be sure to apply DC + to Portion "a" of Motor P.C.B. If DC + is applied to Portion "b", the Loading Motor Drive IC (IC2501) may be damaged.

- Rewind the tape into the cassette by turning the Center Clutch Unit counterclockwise.
- Eject the cassette by applying +10.0VDC Power Supply again.
- After completing the removal procedure, solder Portion "a" and Portion "b."

Method -2:

 Locate the Jumper (J6004) on the System Control Section of the Main C.B.A. and cut it near the center.



 Apply +10.0VDC Power Supply to the jumpers. When the Loading Posts reach the fully unloaded position, remove the Power Supply.

Note

Be careful not to let the DC Power Supply Unit GND contact the chassis GND. This may damage the Loading Motor Drive IC (IC 2501).

Be sure to apply DC + to Portion "a" of J6004.

If DC + is applied to Portion "b" of J6004, the Loading Motor Drive IC (IC2501) may be damaged.

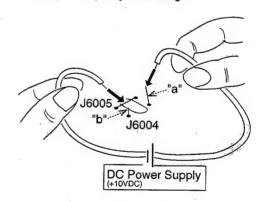


Fig. 7-3

- Rewind the tape into the cassette by turning the Center Clutch Unit counterclockwise.
- Eject the cassette by applying +10.0VDC Power Supply again.
- After completing the removal procedure, resolder Jumper (J6004).

DEFEATING THE AUTO TRACKING

To defeat the Auto Tracking Function, place the instrument in the STOP mode and place a jumper between TP6003 and TP6009 on the Main C.B.A. The tracking will be placed in the neutral position.

HOW TO SET TRACKING TO THE NEUTRAL POSITION

Ejecting the cassette tape and then reinserting it will reset the tracking to the Neutral position.

CYLINDER ROTATION IN STOP MODE

The cylinder will continue to rotate for approximately 5 minutes after the STOP button is pressed in Play mode etc. Eject the tape in order to stop the cylinder.

BLACK SCREWS ON THE CHASSIS

Black Screws are used on the Mechanism Chassis to identify screws that require adjustment.

HOW TO RESET ALL VCR MEMORY FUNCTIONS

To reset (clear) the select language, channel auto set and set clock functions to their initial power on condition (power on, **no** cassette inserted), hold down the PLAY and CH UP buttons on the unit together for more than 5 seconds.

Power will shut off.

HOW TO CONFIRM AUTO CLOCK SET FEATURE

(Model: A, B, C, E, F)

- 1. Connect an RF cable from the output of one unit to the input of the test unit.
- 2. Select corresponding RF channels.
- Playback a recording of P.B.S. channel including clock set data and confirm this feature.

VARIABLE VOLTAGE ISOLATION TRANSFORMER

An Isolation Transformer should always be used during the servicing of VCR whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks. It will also protect VCR from being damaged by accidental shorting that may occur during servicing

Also, when troubleshooting the above type of Power Supply Circuit, a variable isolation transformer is required in order to increase the input voltage slowly.

SPECIAL NOTE

All integrated circuits and many other semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the

"ELECTROSTATICALLY SENSITIVE (ES) DEVICES" section of this service manual.

REPLACEMENT PROCEDURE FOR LEADLESS (CHIP) COMPONENTS

The following procedures are recommended for the replacement of the leadless components used in this unit.

- 1. Preparation for replacement
 - Soldering Iron
 Use a pencil-type soldering iron that uses less than 30 watts.
 - b. Solder

 Eutectic Solder (Tin 63%, Lead 37%) is recommended.
 c. Soldering time
 - Do not apply heat for more than 4 seconds.
 d. Preheating
 Leadless capacitor must be preheated before installation. (266°F ~ 302°F)
 (130°C ~150°C) for about two minutes.

Note:

- Leadless components must not be reused after removal.
- Excessive mechanical stress and rubbing of the component electrode must be avoided.
- Removing the leadless component
 Grasp the leadless component body with tweezers and
 alternately apply heat to both electrodes. When the solder
 on both electrodes is melted, remove the leadless component with a twisting motion.

Note:

- a. Do not attempt to lift the component off the board until the component is completely disconnected from the board by a twisting action.
- Be careful not to break the copper foil on the printed circuit board.

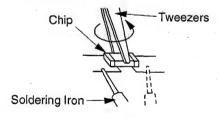


Fig. 8-1

- 3. Installing the leadless component
 - a. Presolder the contact points on the circuit board.

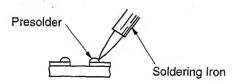


Fig. 8-2

b. Press the part downward with tweezers and solder both electrodes as shown below.

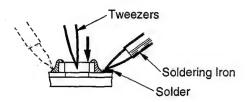


Fig. 8-3

Note:

Do not glue the replacement leadless component to the circuit board.

MODEL NO. IDENTIFICATION MARK

Use Marks shown in the chart below to distinguish the different models included in this Service Manual.

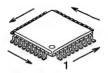
MODEL	MARK
PV-8400	Α
PV-8400-K	В
PV-8401	С
VHQ840	D
PV-8450	E
PV-8450-K	F
VHQ860	G
Not Used	Z

Note:

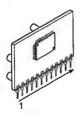
Refer to Item 3 of Schematic Diagram Notes of Schematic Diagram and Circuit Board Layout Notes, for mark "Z."

IC, TRANSISTOR AND CHIP PART INFORMATION

MAIN C.B.A.



AN3476FBP, AN3962FB-V, MN101D01FPA, MN101D01FPB1, MN101D01GPA2



VCRS0215



T47C216FF917



ON3131-S.KT, ON3131-R.KT, PS2501-1-X



2SD2259



2SD2159

2SD601A, 2SB709A, 2SD1819A,

2SB1218ARS, 2SD235800A

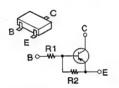


2SC5130LF608, 2SC4533LP.KT, 2SD2375

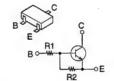


T4101, EIQ7QF018Q

GENERAL C.B.A./ASS'Y PARTS



UN5115 (R1=10K, R2=OPEN), UN511L (R1=4.7K, R2=4.7K)



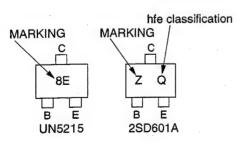
UN5215 (R1=10K, R2=0PEN), UN5211 (R1=10K, R2=10K)



MN3885S, AN3361SB, AN3328S, AN3845SC, AN3809K

HOW TO READ THE IDENTIFICATION MARK OF CHIP COMPONENTS.

MARKING	PART NO.	MARKING	PART NO.
В	2SB709A	6E	UN5115
В	2SB1218ARS	6Q	UN511L
Z	2SD601A	8A	UN5211
Z	2SD1819A	8E	UN5215
1B	MA111		



HOW TO READ THE VALUES OF THE CYLINDRICAL TYPE CHIP COMPONENTS.

1st 2nd 3rd

The widest color band must be read first for value.

(a) RESISTOR

There are two types (ERD10LLJ... and ERD10TLJ...) of chip parts.

1) ERD10LLJ: Refer to above type.

2) ERD10TLJ: The narrow color band must be read first for value.

If this part is included in the parts list, be sure that the color band is read properly when servicing.

(b) CAPACITOR

Because of the width of the color bands, the reading direction cannot be specified. However, the color band can be read on either side. Be sure to confirm the value using the schematic diagram.

CAUTION:

Once chip parts are removed, they must not be reused. Always use a new part when installing a chip part.

DISASSEMBLY/ASSEMBLY PROCEDURES

DISASSEMBLY/ASSEMBLY PROCEDURES OF CABINET

Disassembly Flowchart

Perform all disassembly procedures in the order described in the "Disassembly Flowchart" shown below. When reassembling, use the reverse procedure.

CAUTION:

Disconnect AC plug before disassembly.

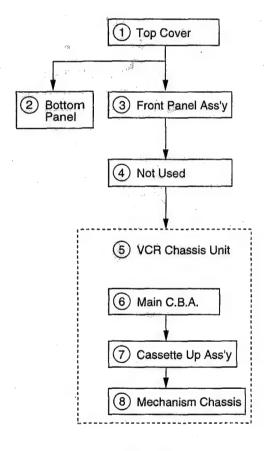
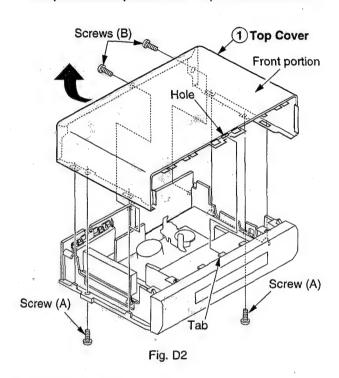


Fig. D1

Top Cover

Disassembly Procedure

- 1. Remove 2 Screws (A) and 2 Screws (B).
- 2. Lift up on the rear portion of the Top Cover and remove.



Reassembly Notes

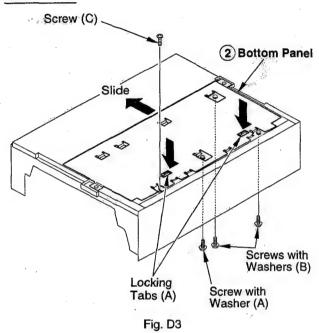
- Install the Top Cover front portion at a downward angle so that the tab on the Front Panel Ass'y fits into the hole in the Top Cover.
 - Then, lower the rear portion into place and tighten 2 Screws (A) and 2 Screws (B).

Bottom Panel

Disassembly Procedure

- 1. Remove 3 Screws with Washers (A), (B), and Screw (C).
- While pushing 2 Locking Tabs (A) to release, slide the Bottom Panel and remove.

Bottom View



Front Panel Ass'y

Disassembly Procedure

- Release 2 Locking Tabs (B) on the top left.
 Release 2 Locking Tabs (C) on the top right.
 Release 3 Locking Tabs (D) on the bottom side. Then, remove the Front Panel Ass'y.

Note:

Work carefully so as not to break the Tabs.

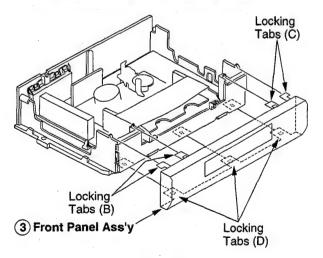


Fig. D4-1

Reassembly Notes

Installation of Front Panel Ass'y

The state of the s

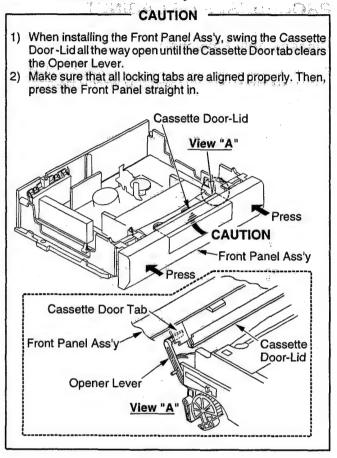


Fig. D4-2

VCR Chassis Unit

Disassembly Procedure

- Slide the Holder Unit (refer to "Method for Loading/Unloading of Mechanism" in Service Notes) to gain access to 2 Screws (D) for removal.
- 2. Remove Screws (E), (F), (G), (H), and (I).
- 3. Remove Chassis Angle.

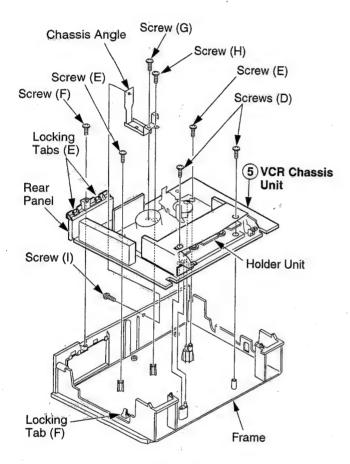


Fig. D5-1

- Push 2 Locking Tabs (E) inward to release while lifting the Rear Panel.
- Push Locking Tab (F) outward while gently lifting the left side of the Main C.B.A. (Portion "A").
- Lift the right side of the Cassette Up Ass'y (Portion "B") and remove VCR Chassis Unit out of the Frame.

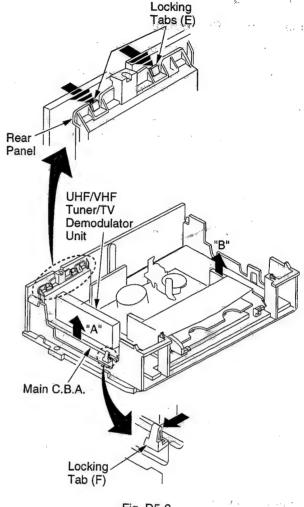


Fig. D5-2

Note:

- DO NOT pull upward on the UHF/VHF Tuner/TV Demodulator Unit because you may crack the Main C.B.A.
- 2. Work carefully so as not to break tabs.

Reassembly Notes

 When installing 2 Screws (D), slide the Holder Unit (refer to "Method for Loading/Unloading of Mechanism" in Service Notes) to tighten screws. Then slide it back to the EJECT Position.

Make sure that Mechanism and Cassette Up Ass'y are in the **EJECT** Position. (Refer to "**EJECT** Position confirmation" in Disassembly/Assembly Procedures of Mechanism.)

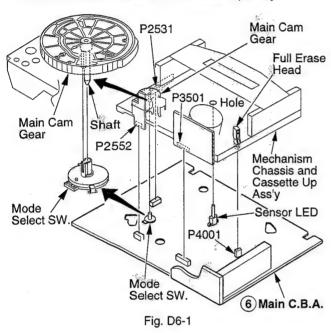
Main C.B.A.

Disassembly Procedure

- Disconnect 4 Connectors of P2531, P2552, P3501 and P4001
- Carefully lift the Mechanism Chassis and Cassette Up Ass'y straight out from the Main C.B.A.

Note:

Work carefully so as not to break Sensor LED, when lifting the Mechanism Chassis and Cassette Up Ass'y.



Reassembly Notes

CAUTION

Installation of Mechanism Chassis and Cassette Up Ass'y onto Main C.B.A.

 Make sure the Mode Select SW. on the Main C.B.A. is in EJECT position. If not, rotate the Mode Select SW. until the alignment projection is in the EJECT Position.

Make sure the Mechanism and Cassette Up Ass'y are in the **EJECT** Position. (Refer to "**EJECT** Position confirmation" in Disassembly/Assembly Procedures of Mechanism.)



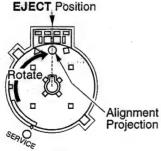


Fig. D6-2

 Install the Mechanism Chassis and Cassette Up Ass'y straight onto the Main C.B.A. so that the Sensor LED clears the hole in the Mechanism Chassis and that 4 Connectors (P2531, P2552, P3501, and P4001) are aligned and seated securely.

Cassette Up Ass'y

Disassembly Procedure

- Slide Holder Unit (refer to "Method for Loading/Unloading of Mechanism" in Service Notes) to gain access to 2 Screws (J) for removal.
- 2. Remove Screw (K).
- 3. Unhook Spring (A).
- Slide the Cassette Up Ass'y towards the front to release Locking Tab (G). Then, lift it up and remove.

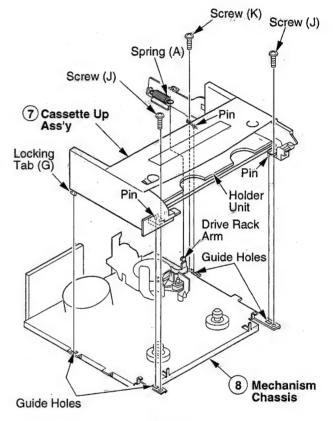


Fig. D7

Reassembly Notes

Installation of Cassette Up Ass'y

- Confirm that the 3 pins and Locking Tab (G) under the Cassette Up Ass'y are in each of the 4 Guide Holes on the Mechanism Chassis when installing the Cassette Up Ass'y. Then, slide the Cassette Up Ass'y towards the back.
- Slide Holder Unit (refer to "Method for Loading/Unloading of Mechanism" in Service Notes) to tighten 2 Screws (J) and Screw (K).

Be careful not to tighten screws too much, or the Cassette Up Ass'y may be bent outward.

Then, slide it back to the **EJECT** Position.

4) Hook Spring (A) to the Drive Rack Arm on the Mechanism Chassis.

DISASSEMBLY/ASSEMBLY PROCEDURES OF MECHANISM

Disassembly Method

This chart indicates Step/Location No. of Parts to be serviced and prior steps to gain access items to be serviced when disassembling. When reassembling, perform the step(s) in the reverse order.

Step /Loc. No.	Part	Prior Step(s)	Step /Loc. No.	Part	Prior Step(s)	Step /Loc. No:	Part	Prior Step(s)	Step /Loc. No.	Part	Prior Step(s)
	Cylinder Unit		1		3, 4, 5, 7, 8, 9	21)	Loading Post Base-S Unit	16	(31)	S Loading Arm Unit	30
	Upper Cylinder Unit			T Brake Unit	9	22	Loading Post Base-T Unit	9, 20	(32)	Center Clutch Unit	
			(13)	Changing Lever A	9	23)	Capstan Rotor Unit		(33)	Changing Gear Spring	32
	Pinch Arm Unit	3	14)	T Reel Table	9, 12, 13	24)	Capstan Holder Unit	23			32, 33
	Motor Block Ass'y		(15)	Full Erase Head	TEST TEST TOTAL	25)	SS Brake Arm Unit		(35)	41	32, 33, 34
6	Audio Control Head Unit	5	16	Tension Arm Unit		26)	Junction C.B.A.			Idler Arm Unit	32, 33, 34
7	Main Cam Gear	3, 4, 5	(1)	S Spring Arm							9, 30
8	Drive Rack Arm	3, 4, 5, 7	18)	S Reel Table	16, 17	28)				Grounding Plate Unit	
	Main Lever		19	S Brake Arm Unit	9, 16, 17, 18	29		23, 25, 26, 27			
100	P5 Arm Unit	9	20	Main Lever Guide	9	30			_	7	

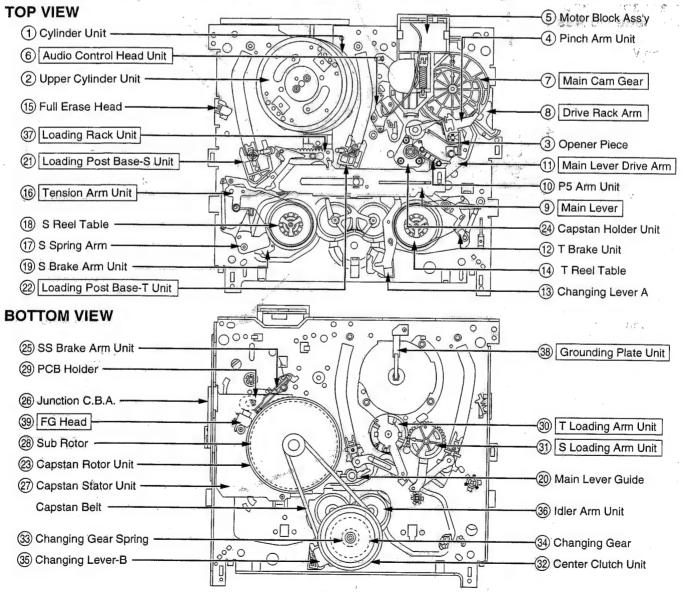
Step/Loc. No.: Order of steps in procedure.

Part : Part to be removed or installed.

Prior Step(s): Steps to be completed prior to the current step.

Note: When the mechanical parts surrounded by rectangle are removed or replaced, be sure to perform necessary adjustment or alignment procedures according to the mechanical adjustment procedures section and disassembly

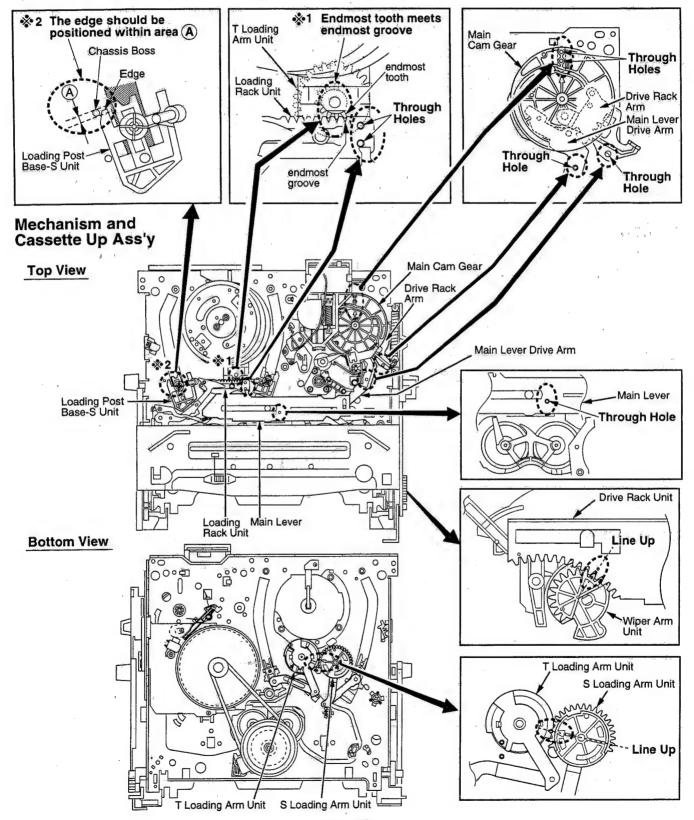
Perform all disassembly and alignments procedures in EJECT Position.



EJECT Position Confirmation

Check the following alignment points to confirm that the Mechanism and Cassette Up Ass'y are in the EJECT Position from the top side.

(By using alignment points * 1 & * 2, it is possible to roughly confirm the S & T Loading Arm Units from the top side, even though they are located on the bottom side of the mechanism chassis.



Cylinder Unit

Disassembly Procedure

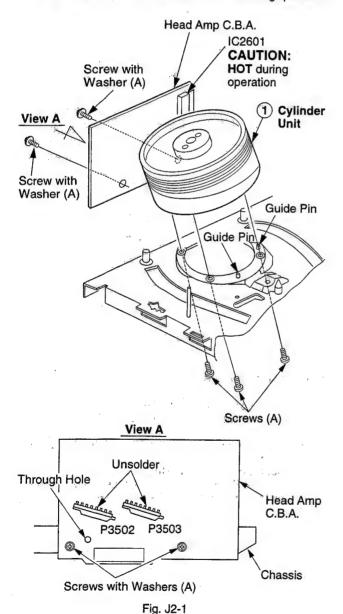
- Remove 3 Screws (A) and 2 Screws with Washers (A). Then, lift the Cylinder Unit and the Head Amp C.B.A. out from the mechanism.
- Unsolder P3502 and P3503. Then, remove the Head Amp C.B.A.

Note:

Use extreme care when removing or replacing the Cylinder Unit. Do not touch the Video Heads during servicing.

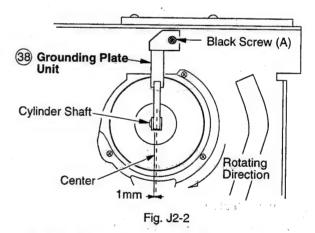
CAUTION:

When removing the Cylinder Unit, avoid touching IC2601 on the Head Amp C.B.A. because it is **HOT** during operation.



Reassembly Notes

- 1. Use extreme care when removing or replacing the Cylinder Unit. Do not touch the Video Heads during servicing.
- 2. Installation of Cylinder Unit
 - Install the Cylinder Unit so that the 2 holes on the lower surface of the Cylinder Unit fit over the 2 Guide Pins on the Cylinder Base and loosely secure it with 3 Screws (A).
 - Install the Head Amp C.B.A. so that the hole on the Head Amp C.B.A. lines up with the hole on the chassis and secure it with 2 Screws with Washers (A).
 - 3) Position the Cylinder Unit so that foil patterns of connectors (P3502 and P3503) and Head Amp C.B.A. are aligned, and tighten 3 Screws (A).
 - 4) Solder connectors (P3502 and P3503).
- 3. Adjustment of Grounding Plate Unit
 - After installing, make sure that the Grounding Plate Unit, on the bottom side of mechanism chassis, is positioned on the right side of the Cylinder shaft so that the center line of the plate is just less than 1.0 mm measured from the center of the Cylinder shaft. If required, adjust the plate position by loosening Black Screw (A).
 - Never install the Grounding Plate Unit on the left side of the Cylinder shaft.
 - Incorrect positioning will cause cylinder buzz.



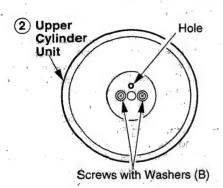
2) After installing, perform the "Tape Interchangeability Adjustment" procedures.

Upper Cylinder Unit

Disassembly Procedure

1. Remove 2 Screws with Washers (B).

2. Carefully lift the Upper Cylinder Unit from the shaft.



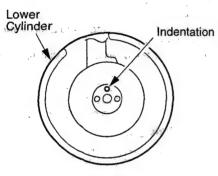


Fig. J3

Note:

Use extreme care when removing or replacing the Upper Cylinder Unit. Do not touch the Video Heads during servicing.

Reassembly Notes

 Use extreme care when removing or replacing the Cylinder Unit, Do not touch the Video Heads during servicing.

2. Alignment of Upper Cylinder Unit

 When installing, make sure that the hole on the Upper Cylinder is aligned with the indentation on the Lower Cylinder.

 After installing, perform the "Tape Interchangeability Adjustment" procedures.

Opener Piece, Pinch Arm Unit, Motor Block Ass'y, and Audio Control Head Unit

Disassembly Procedure

 Remove the Opener Piece by pulling it upward while releasing 2 Locking Tabs (A).

2. Pull up on the Pinch Arm Unit.

 Release 3 Locking Tabs (B) and remove Screw with Washer (C). Then, remove the Motor Block Ass'y and Audio Control Head Unit.

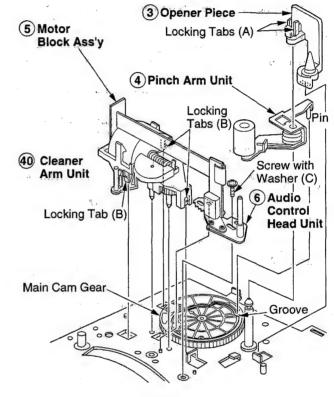


Fig. J4

Reassembly Notes

- 1. Installation of Audio Control Head Unit
 - Install the Audio Control Head Unit before Motor Block Ass'y.
 - After installing, perform the "Tape Interchangeability Adjustment" procedures.
- 2. Installation of Pinch Arm Unit
 - Install the Pinch Arm Unit so that the Pin of Pinch Arm Unit fits in the groove of Main Cam Gear.

Main Cam Gear and Drive Rack Arm

Disassembly Procedure

- 1. Remove the Main Cam Push Nut. (Refer to Note.)
- 2. Pull up on the Main Cam Gear.
- 3. Turn the Drive Rack Arm fully counterclockwise as shown.
- 4. Pull up on the Drive Rack Arm.

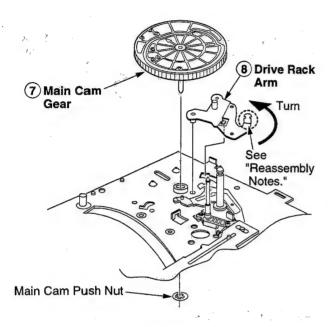


Fig. J5-1

Note:

When removing the Main Cam Push Nut, press the Main Cam Gear to make space between the Main Cam Push Nut and Bottom of Chassis. Then, remove the Main Cam Push Nut using a screwdriver etc.

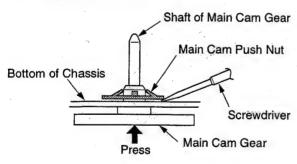
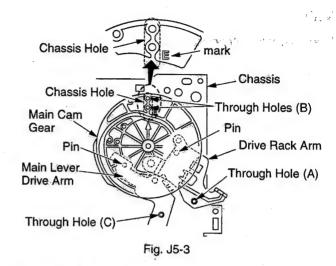


Fig. J5-2

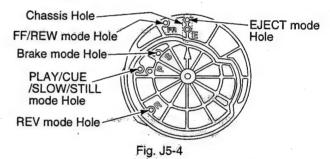
Reassembly Notes

- Alignment of Main Cam Gear, Drive Rack Arm, and Main Lever Drive Arm
 - Confirm that the hole (C) on the Main Lever Drive Arm is aligned with the hole on chassis (Through hole (C)) as shown.
 - 2) Install the Drive Rack Arm so that the hole (A) is aligned with the hole on chassis (Through hole (A)) as shown.
 - Install the Main Cam Gear so that the 2 holes (B) marked "E" are aligned with the hole on chassis (Through hole (B)) as shown. ("E" indicates the EJECT position.)



2. Holes on Main Cam Gear

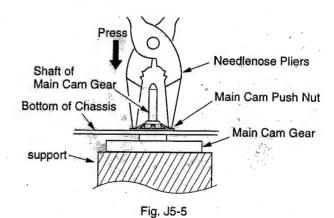
 The holes on Main Cam Gear should be aligned with the hole on chassis in each mode (Through hole) as shown.



3. Installation of Main Cam Gear and Main Cam Push Nut

 Position the chassis upside down and place a Support under the Main Cam Gear.
 Install the Main Cam Push Nut with Needlenose Pliers etc. so that it is flush with the chassis.

There may be some slight scratches on the Shaft of Main Cam Gear, when removing the Main Cam Gear. In case that the Main Cam Gear can be installed securely without tottering, it is fine to use the one. If any tottering, replace a new one.



- 4. The Main Cam Push Nut is not reusable. Install a new one.
- Make sure to hook Spring (A) of the Cassette Up Ass'y to the Drive Rack Arm. Refer to "Cassette Up Ass'y" in "Disassembly/Assembly Procedures of Cabinet."

Main Lever

Disassembly Procedure

1. Release 2 Locking Tabs (C) and Locking Tab (D). Then, remove the Main Lever.

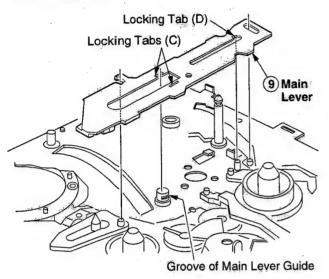


Fig. J6-1

Reassembly Notes

1. Installation/Alignment of Main Lever

 Make sure that the 2 holes of Loading Rack Unit are aligned with the holes on chassis (Through holes).

) Turn the P5 Arm Unit to the Capstan Rotor Unit Shaft side.

3) Turn the T Brake Unit to the T Reel Table side.

4) Position the Main Lever so that the Loading Rack Unit Pin fits in the niche of Main Lever. Confirm that pins and bosses are in the position and that the hole of Main Lever is aligned with the hole on chassis (Through hole) as shown. Then, install the Main Lever.

5) Push down the Locking Tabs (C) to set in the groove of Main Lever Guide.

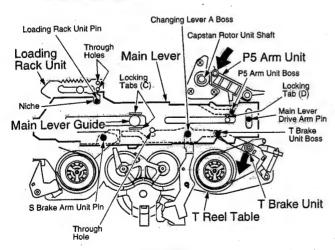


Fig. J6-2

P5 Arm Unit and Main Lever Drive Arm

Disassembly Procedure

1. Pull up on the P5 Arm Unit.

Turn the Main Lever Drive Arm fully counterclockwise as shown.

3. Pull up on the Main Lever Drive Arm.

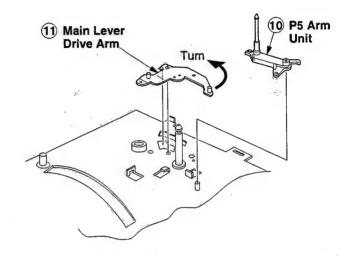


Fig. J7-1

Reassembly Notes

1. Alignment of Main Lever Drive Arm

 Install the Main Lever Drive Arm so that the hole (C) is aligned with the hole on the chassis Through hole (C)) as shown.

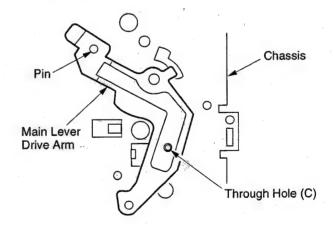
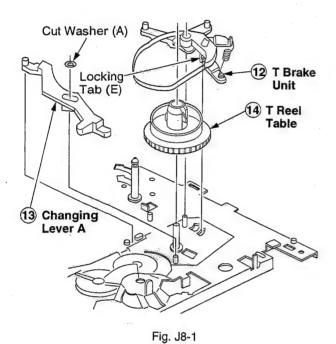


Fig. J7-2

T Brake Unit, Changing Lever A, and T Reel **Table**

Disassembly Procedure

- 1. Remove the T Brake Unit while releasing Locking Tab (E) located under the chassis.
- Remove Cut Washer (A). Then, pull up on the Changing Lever A and remove.
- 3. Pull up on the T Reel Table.



Reassembly Notes

1. How to distinguish between S Reel Table and T Reel

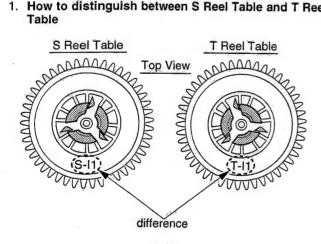


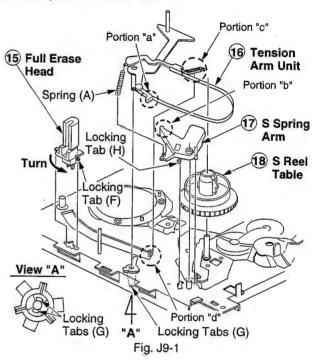
Fig. J8-2

2. Cut Washer (A) is not reusable. Install a new one.

Full Erase Head, Tension Arm Unit, S Spring Arm, and S Reel Table

Disassembly Procedure

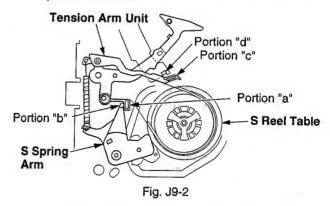
- 1. Turn the Full Erase Head fully counterclockwise while releasing Locking Tab (F) as shown. Then remove it.
- Unhook Spring (A).
- Remove the Tension Arm Unit by pulling it up while releasing 2 Locking Tabs (G).
- Remove the S Spring Arm while releasing Locking Tab (H).
- Pull up on the S Reel Table.



Reassembly Notes

1. Confirmation/Adjustment of Tension Arm Unit

 When installing Tension Arm Unit and S Spring Arm, confirm "a," "b," "c," and "d" portion are in the proper position as shown.

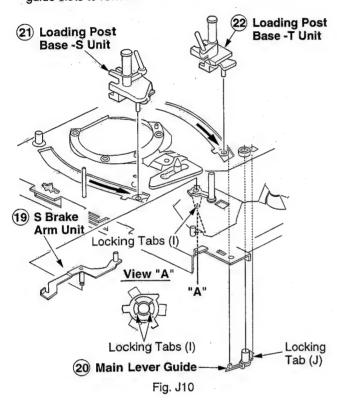


2) After installing, perform the "Tension Post Adjustment" procedures.

S Brake Arm Unit, Main Lever Guide, Loading Post Base - S, and Loading Post Base - T Unit

Disassembly Procedure

- Remove the S Brake Arm Unit while releasing 2 Locking Tabs (i).
- 2. Remove the Main Lever Guide while releasing Locking Tab
- Slide the Loading Post Base -S and T Units to the end of the guide slots to remove.



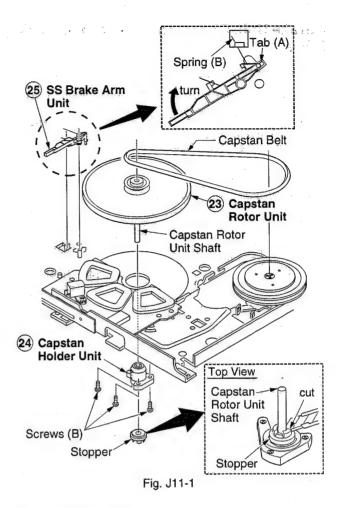
Reassembly Notes

- Adjustment of Loading Post Base -S Unit and Loading Post Base -T Unit
 - After installing, perform the "P2 and P3 Post Height Adjustment" procedures and "Tape Interchangeability Adjustment" procedures.

Capstan Rotor Unit, Capstan Holder Unit, and SS Brake Arm Unit

Disassembly Procedure

- 1. Remove the Capstan Belt.
- Cut the Stopper with a cutter to remove.
- 3. Pull up on the Capstan Rotor Unit.
- Remove 3 Screws (B). Then remove the Capstan Holder Unit.
- 5. Unhook Spring (B).
- 6. Turn the SS Brake Arm Unit so that the Tab (A) lines up with the niche. Then, remove the SS Brake Arm Unit.



Reassembly Notes

1. Installation of Capstan Rotor Unit

- Insert the Capstan Rotor Unit Shaft into the hole of the Capstan Holder Unit.
- Place a support under the Capstan Rotor Unit shaft. Install the Stopper. Be careful not to scratch the shaft or Capstan Holder Unit.
- Remove the support. Press the top end of the shaft down so that the Stopper is properly positioned.
 You should be able to move the shaft up and down slightly when properly positioned.

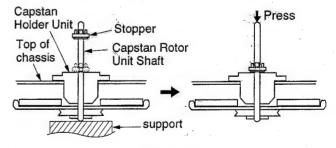


Fig. J11-2

2. Capstan Rotor Kit

Capstan Rotor Kit
Capstan Rotor Unit, Capstan Holder Unit, and Stopper are
supplied as a Capstan Rotor Kit only. (Kit No. VXPS0382K2)
They are not reusable. Install all new parts.
Because even invisible scratches on the Capstan Rotor
Unit shaft and the Capstan Holder Unit, made when cutting
the Stopper, could cause tape path instability.

Junction C.B.A., Capstan Stator Unit, Sub Rotor, and PCB Holder

Disassembly Procedure

1. Remove 2 Screws (C).

Unsolder P2532 on the Junction C.B.A. Then, remove the

Junction C.B.A.

Remove Screw (D) and 2 Screws with Washers (D), (E). Then, remove Capstan Stator Unit, Sub Rotor, and PCB Holder.

CAUTION:

When removing Capstan Stator Unit, avoid touching IC2501 on the Capstan Stator Unit because it is HOT during operation.

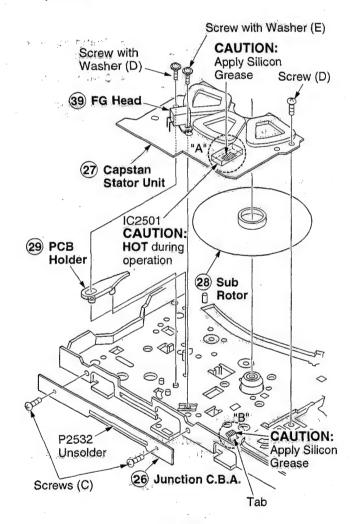


Fig. J12-1

State of the second

Reassembly Notes

1. Application of Sillicon Grease

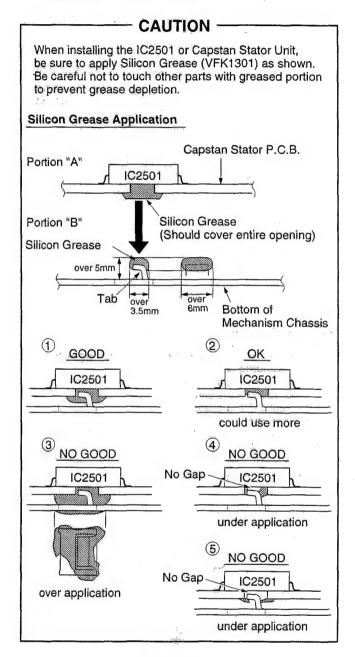


Fig. J12-2

2. Capstan Stator Kit

1) Capstan Stator Unit, Capstan Rotor Unit, Capstan Holder Unit, and Stopper are supplied as a Capstan Stator Kit only (Kit No. VEMS0316K2).

However, IC2501(AN3845SC) is available separately as a replacement part.

Capstan Rotor Unit, Capstan Holder Unit, and Stopper are not reusable. Install all new parts.

Because even invisible scratches on the Capstan Rotor Unit shaft and the Capstan Holder Unit, made when cutting the Stopper, could cause tape path instability.

3. Adjustment of FG Head

1) After installing, perform the "FG Head gap Adjustment" procedures.

T Loading Arm Unit and S Loading Arm Unit Disassembly Procedure

- Remove the T Loading Arm Unit by pulling it up while releasing Locking Tab (K).
- 2. Pull up on the S Loading Arm Unit.

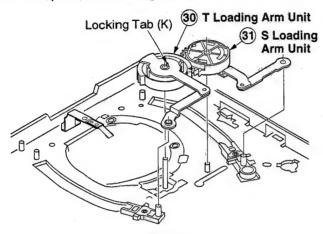
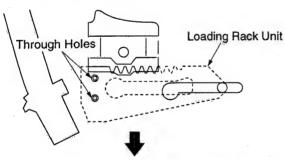


Fig. J13-1

Reassembly Notes

- Alignment of Loading Rack Unit, T Loading Arm Unit, and S Loading Arm Unit
 - 1) Slide the Loading Rack Unit so that the holes on it and the holes on the chassis line up properly.
 - 2) Install the S Loading Arm Unit onto the Chassis.
 - 3) Install the T Loading Arm Unit so that the triangleshaped indent is aligned with the arrow on the S Loading Arm Unit as shown. Confirm that each hole on the T Loading Arm Unit, Chassis, and Loading Rack Unit are through holes.



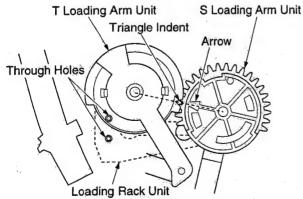


Fig. J13-2

Center Clutch Unit, Changing Gear Spring, Changing Gear, Changing Lever-B, and Idler Arm Unit

Disassembly Procedure

- 1. Remove Cut Washer (B). Then remove the Center Clutch Unit, Changing Gear Spring, and Changing Gear.
- Remove Changing Lever -B so that the 2 Mounting Holes clear Mounting Pins.
- 3. Pull up on the Idler Arm Unit.

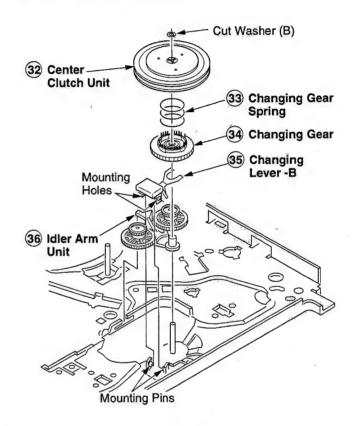
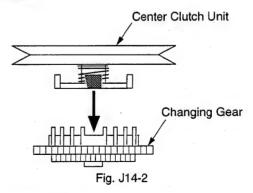


Fig. J14-1

Reassembly Notes

- 1. Installation of Center Clutch Unit
 - Fit the Center Clutch Unit into the Changing Gear as shown.



2. Cut Washer (B) is not reusable. Install a new one.

Loading Rack Unit

Disassembly Procedure

 Slide the Loading Rack Unit as indicated by the arrow. Then, pull up on the Loading Rack Unit.

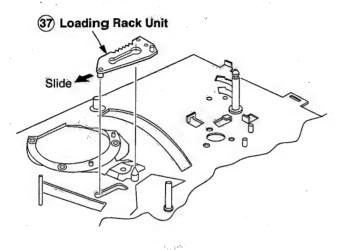


Fig. J15

Reassembly Notes

1. Alignment of Loading Rack Unit

 When installing Loading Rack Unit, refer to Reassembly Notes of "T Loading Arm Unit and S Loading Arm Unit."

DISASSEMBLY/ASSEMBLY PROCEDURES OF CASSETTE UP ASS'Y

Top Plate, Wiper Arm Unit, and Holder Unit Disassembly Procedure

- Remove Top Plate by releasing 2 Locking Tabs (A) on the left side and 2 Locking Tabs (B) on the right side of the Top Plate.
- Remove Wiper Arm Unit by releasing 2 Locking Tabs (C). Then, remove the Holder Unit.

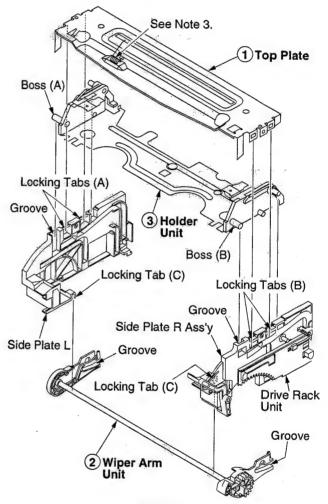


Fig. K1-1

Reassembly Notes

- 1. Alignment of Wiper Arm Unit and Drive Rack Unit
 - 1) Slide the Drive Rack Unit to the far right as indicated by the arrow.
 - Install the Wiper Arm Unit so that the hole on the Wiper Arm Unit is aligned with the hole on the Drive Rack Unit.

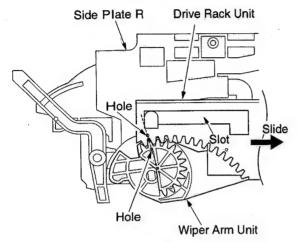


Fig. K1-2

2. Installation of Holder Unit

- Turn the Wiper Arm Unit so that the grooves on each end are aligned with the each groove on Side Plate L and R.
- Insert Holder Unit boss (A) and (B) into the grooves (See Fig. K1-1 on previous page).
- Finally, in the EJECT Position, confirm that the protrudence on the Wiper Arm Unit is aligned with the indentation on the Drive Rack Unit.

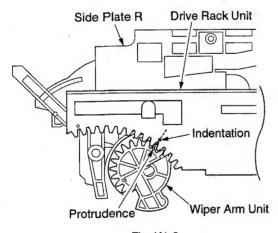


Fig. K1-3

3. As an ESD countermeasure, make sure the spring is in contact with Top Cover.

Sensor Cover, Opener Lever, and Drive Rack Unit

Disassembly Procedure

- 1. Remove the Sensor Cover by releasing Locking Tab (D).
- Remove the Opener Lever by releasing 2 Locking Tabs (E).
 Then remove the Drive Rack Unit.

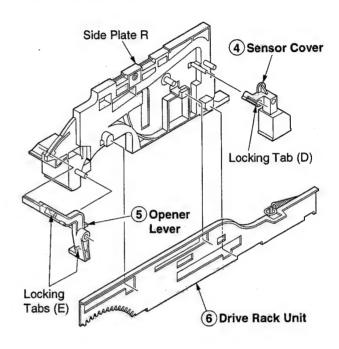
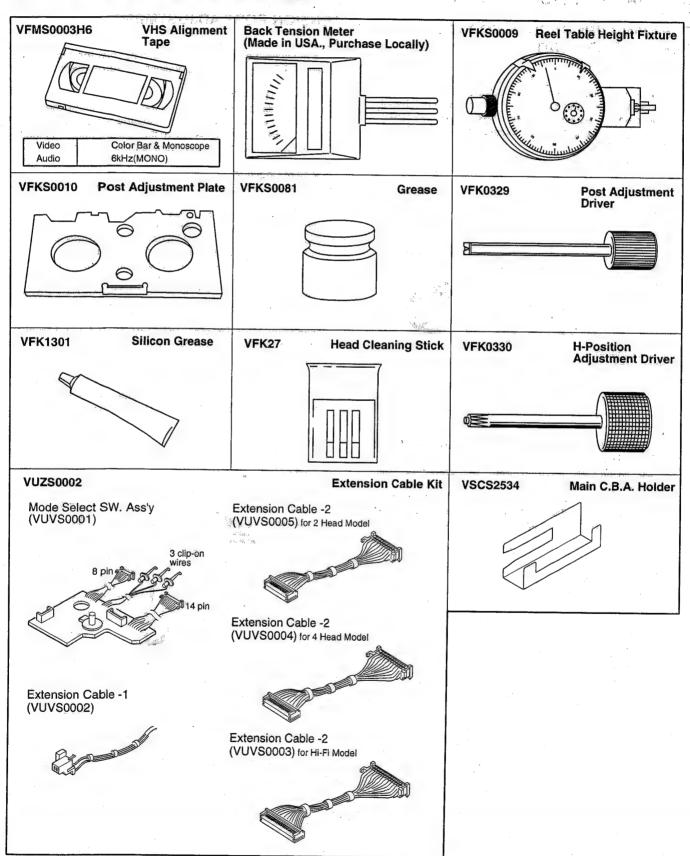


Fig. K2

ADJUSTMENT PROCEDURES

SERVICE FIXTURES AND TOOLS



MECHANICAL ADJUSTMENT

CLEANING PROCEDURE FOR THE UP-PER CYLINDER UNIT

1. While slowly turning the Upper Cylinder Unit counterclockwise by hand, gently rub the Video Heads with a Head Cleaning Stick (VFK27) moistened with Ethanol. When using a Cleaning Cassette, make sure to use "DRY" type only and be aware that excessive use can shorten head life.

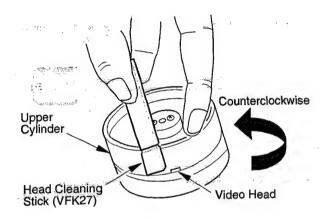


Fig. M1

Note:

Do not rub vertically or apply excess pressure to the 1) Video Heads. Do not turn the Upper Cylinder Unit clockwise while cleaning.

2) After cleaning, use a Dry Head Cleaning Stick (VFK27) to remove any Ethanol remaining on the cylinder tape path. Otherwise, tape damage will occur.

ADJUSTMENT PROCEDURES TENSION POST ADJUSTMENT

Purpose:

To maintain a constant tape tension so that the tape runs with stability by performing preliminary adjustment.

TOUGHTOUR CARBOTELLUR

Symptom of Misadjustment:

1) If the adjusted value is below the specification, the tape tension is not sufficient, thus causing a tape slack.

If the adjusted value is above the specification, the tape tension is too high, thus causing tape damage.

Equipment Required: 2 mm Hex. Wrench (Purchase Locally)

Remove the Cassette Up Ass'y.
Plug the AC plug into an AC outlet.

Place the unit in the Service Mode. Refer to "Service Mode" in the "Service Notes" section of this manual. The power comes on and the unit goes into the PLAY Mode.

Using a (2 mm) Hex. Wrench, adjust the nut on the Tension Adjust Piece (counterclockwise only) so that there is a space of 1 mm between the left edge of the P1 Post and the right edge of the Tension Post. Make sure that the center of the Hex. Wrench hole is within Area "A".

After adjustment, remove the Hex. Wrench.

Press the STOP/EJECT button to place the unit in the EJECT Mode.

7. Release the unit from the Service Mode. Refer to "Service Mode" in the "Service Notes" section of this manual.

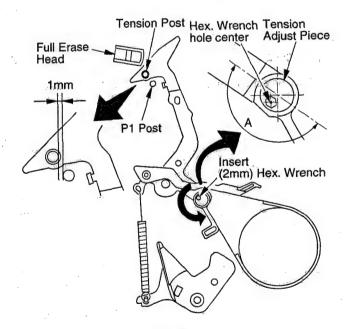


Fig. M2

BACK TENSION CONFIRMATION

Purpose:

To fine adjust the Back Tension so that the tape runs smoothly with a constant tension.

Symptom of Misadjustment:

 If the tape tension is less than the specified value, the tape cannot come into proper contact with the Video Heads, resulting in poor picture playback.

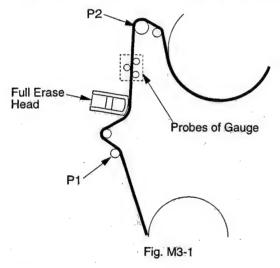
If the tape tension is too high, the tape will soon be damaged.

Measurement Procedure

Equipment Required:

Back Tension Meter (Made in U.S.A., Purchase Locally) VHS Cassette Tape (120-Minute Tape)

- Play back a T120 cassette tape from the beginning for approx. 10 to 20 seconds to stabilize tape movement.
- Insert a Tension Meter into tape path and measure the back tension.
- If the reading is out of specification, make sure that there is
 no dust or foreign material between the Tension Band of
 Tension Arm Unit and the Reel Table.
 If cleaning does not correct the tension measurement,
 replace the Tension Spring and the Tension Arm Unit.



Note:

- Be sure that the three probes of the meter are all in solid contact with the tape, but not touching any other parts of the mechanism.
- It is recommended that measurements be repeated at least three (3) times because the tension meter is very sensitive to external vibrations.

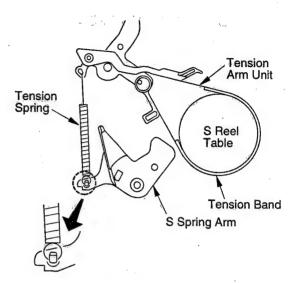


Fig. M3-2

FG HEAD GAP ADJUSTMENT

Purpose:

To properly pick up the FG Signal.

Symptom of Misadjustment:

If the FG Signal is not properly picked up, Servo Operation cannot be achieved.

Equipment Required: Oscilloscope

Specification 0.13 +/- 0.02mm

- Remove the VCR Chassis Unit and then place it upside down.
- 2. Remove the Main C.B.A.
- Slightly loosen Black Screw (A). Then set the Screwdriver (#1 or #2 Phillips Driver) into the Hole (A). Turn the screwdriver counterclockwise until the FG Head touches the rotor. Then turn it slightly clockwise to the clearance as specified.
- 4. Tighten Black Screw (A).
- 5. Reinstall the Main C.B.A.

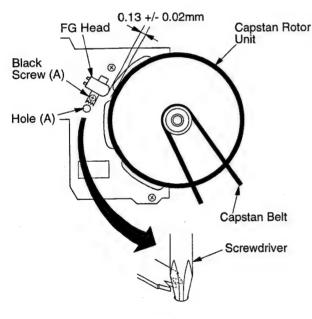


Fig. M4

Note:

Do not touch the outside circumference of the rotor surface with any tool and keep magnetic material away from the rotor magnet (especially metal particles).

Confirmation of Signal Level

1) Supply a Video Signal to the Video Input Jack.

 Insert a cassette tape and place the unit in SLP recording mode.

 Connect the oscilloscope to Pin 7 of P2502 on the Capstan Stator Unit.
 Confirm that the signal level is greater than 15mVp-p.

P2 AND P3 POST HEIGHT ADJUSTMENT (PRELIMINARY ADJUSTMENT)

Purpose:

To properly align the position of the tape with the Cylinder Lead so that the tape runs with stability.

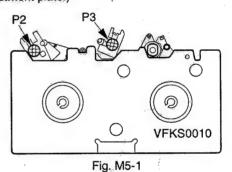
Symptom of Misadjustment:

- Since the Envelope Waveform Signal cannot be tracked properly, the Playback picture will be poor.
- Since the tape does not run smoothly, the tape will eventually be damaged.
- 3) Tape interchangeability is poor.

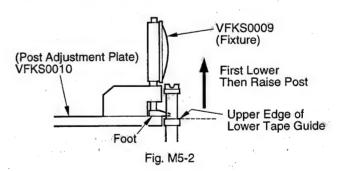
1. Remove the Cassette Up Ass'y.

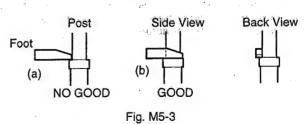
2. Position the Post Adjustment Plate over the reels.

 Place the fixture on the Post Adjustment Plate and zero the fixture (DO NOT use the cut-out portion of the post adjustment plate.)



4. Lower each post below the top edge of the Post Adjustment Plate. Then, raise each post until it contacts the foot of the Reel Table Height Fixture. For proper adjustment, the foot of that should be positioned as shown.





CAUTION:

- Overtightening P2 and P3 posts may cause the threads to strip.
- Upon completion of this procedure, perform the "Envelope Output Adjustment" procedures.

TAPE INTERCHANGEABILITY ADJUSTMENT (FINAL ADJUSTMENT)

Note:

To perform these adjustment/confirmation procedures, set the tracking to the neutral position.

Equipment Required:

Dual Trace Oscilloscope
VHS Alignment Tape(VFMS0003H6)
Post Adjustment Driver(VFK0329)
H-Position Adjustment Driver(VFK0330)

1. ENVELOPE OUTPUT ADJUSTMENT

Purpose:

To achieve a satisfactory picture and secure precise tracking.

Symptom of Misadjustment:

If the envelope is output poorly, much noise will appear in the picture. Then the tracking will lose precision and the playback picture will be distorted by any slight variation of the tracking control circuit.

Equipment Required:

Post Adjustment Driver(VFK0329)

- Connect the oscilloscope to TP3002 on the Video Signal Process Section of the Main C.B.A. Use TP6205 as a trigger.
- Place a jumper between TP6003 on the Video Signal Process Section and +5V(TP6009) on the System Control Section of the Main C.B.A. to defeat Auto Tracking.
- Eject the tape and insert it again to access the Neutral Tracking position.
- Play back the alignment tape and confirm that the RF envelope appears.
- 5. With Post Adjust Driver, adjust P2 and P3 post height so that the envelope waveform (Vi/V-max. is 0.7 or more.) becomes as flat as possible (No envelope drop). If the envelope drop appears on the left-half of the waveform, adjust P2 post height. If the envelope drop appears on the right-half of the waveform, adjust P3 post height.

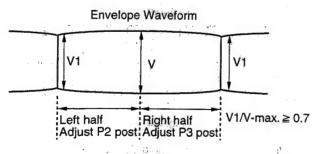


Fig. M6-1

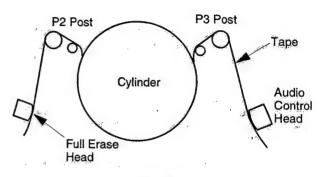


Fig. M6-2

Note:

To confirm adjustment, press the Tracking Control Up or Down button on remote control. Make sure that the envelope waveform remains flat. If not, readjust P2 and/or P3 post heights.

- After adjustment, confirm that the tape travels without curling at P2 and P3 posts.
- Remove the jumper after completing the adjustment procedure.

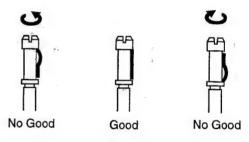


Fig. M6-3

Note:

Overtightening P2 and P3 posts may cause the threads to strip.

2. AUDIO CONTROL HEADTILT ADJUSTMENT

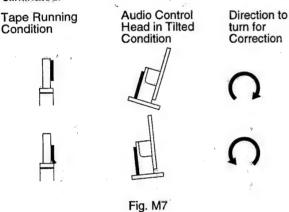
Purpose:

To confirm that the tape runs smoothly. In particular, confirm that the tape properly picks up the Audio Signal at the upper part of the head and the Control Signal at the lower part of the head.

Symptom of Misadjustment:

If the tilt of the Audio Control Head is poorly adjusted, the tape will eventually be damaged. An intermittent Blue screen may be seen in Playback.

- Play back a T120 cassette tape and check that the tape travels smoothly between the upper and lower guides of the P4 post.
- If necessary, adjust Black Screw (B) clockwise until the tape begins to curl at the lower edge of the P4 post. Then adjust the screw counterclockwise until the curling is eliminated.



3. AUDIO CONTROL HEAD HEIGHT ADJUSTMENT

The height of the Audio Control Head replacement part is preset at the factory.

Purpose:

To be sure the tape runs properly along the Control Head.

Symptom of Misadjustment:

If the control signal is not properly picked up, Servo Operation cannot be achieved. A Blue screen will be seen in Playback.

This confirmation is required when the Audio Control Head is replaced.

- Play back a T120 cassette tape and check that the lower edge of the tape runs approximately 0.25 mm above the lower edge of the Audio Control Head.
- 2. If necessary, adjust Black Screws (A) and (B) clockwise to lower the tape or counterclockwise to raise.

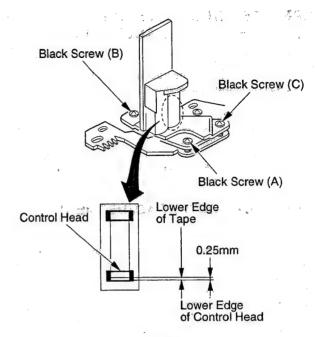


Fig. M8

4. AUDIO CONTROL HEAD AZIMUTH ADJUSTMENT

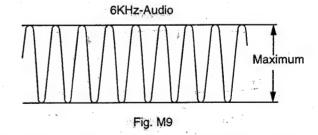
Purpose:

To adjust the position and height of the Audio Control Head so that it meets the tape tracks properly.

Symptom of Misadjustment:

If the position of the Audio Control Head is not properly adjusted, the Audio S/N Ratio is poor.

- Connect the oscilloscope to the audio output jack on the rear side of the deck.
- Play back the 6kHz Monaural Audio portion of the alignment tape.
- Adjust Black Screw (C) on the Audio Control Head base so that the output level is at maximum.



 Confirm the height of the Audio Control Head is proper. If not, readjust Black Screws (A) and (B).

5. AUDIO CONTROL HEAD HORIZONTAL POSITION ADJUSTMENT

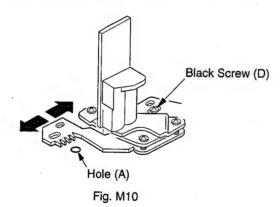
Purpose:

To adjust the Horizontal Position of the Audio Control Head.

Symptom of Misadjustment:

If the Horizontal Position of the Audio Control Head is not properly adjusted, a maximum envelope cannot be obtained at the Neutral Position of the Tracking Control Circuit.

- Connect the oscilloscope to TP3002 on the Video Signal Process Section of the Main C.B.A. Use TP6205 as a trigger.
- Place a jumper between TP6003 on the Video Signal Process Section and +5V(TP6009) on the System Control Section of the Main C.B.A. to defeat Auto Tracking.
- Eject the tape and insert it again to access the Neutral Tracking position.
- Play back the alignment tape and confirm that the RF envelope appears.
- If adjustment is required, loosen the Black Screw (D) and tighten it lightly. Set the H-Position Adjustment Driver into the Hole (A). Then slowly turn the fixture either clockwise or counterclockwise so that the envelope is at maximum.
- Before finding the center of the maximum period of the envelope, rotate the fixture back and forth slightly to confirm the limits on either side of the maximum period.
- Push the Tracking Control Up Button (on the Remote Control) several times (count the number of times pushed) until the maximum envelope is reduced to 1/2.
- Reset the tracking to the neutral position by ejecting the tape and reinserting it. Push the Tracking Control Down Button (on the Remote Control) several times (count the number of times pushed) until the maximum envelope is reduced to 1/2.
- If the number of pushing is not the same, then loosen the Black Screw (D) and set the H-Position Adjustment Driver into the Hole (A) to find the center point. Then repeat the above procedure to determine the center point.
- Tighten Black Screw (D).
 (The Black Screw (D) should be in the approximate center of the hole.)
- 11. Remove the jumper between TP6003 and +5V(TP6009).



Note:

Old type of H-Position Adjustment Driver (VFK0136) can be used for this adjustment.

ELECTRICAL ADJUSTMENT TEST EQUIPMENT

To do all of these electrical adjustments, the following equipment is required.

1. Dual-Trace Oscilloscope

Voltage Range

: 0.001 to 50V/Div.

Frequency Range

: DC to 50MHz

Probes

: 10:1, 1:1

- 2. Color TV Receiver or Monitor
- 3. Plastic Tip Driver and Non-Metal Driver
- 4. Isolation Transformer (Variable)
- 5. VHS Alignment Tape (VFMS0003H6)

6. AC Millivolt Meter

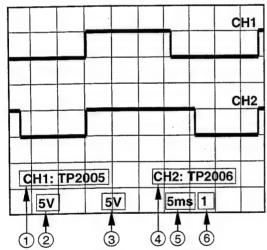
Voltage Range

: 0 to 1Vrms.

7. MTS/SAP Signal Generator

(TV Multi-Channel Sound Modulator (U.S.A.))

HOW TO READ THE ADJUSTMENT **PROCEDURES**



- 1. Connecting Point
- 3. Volts/DIV
- 5. Time/DIV
- 2. Volts/DIV
- 4. Connecting Point
- 6. Trigger Channel of the Scope

1 : CH1

2: CH2

Fig. E1

PG SHIFTER ADJUSTMENT

Purpose:

Determine the Video Head Switching Point during Playback.

Symptom of Misadjustment:

May cause Head Switching Noise and/or Vertical Jitter.

Test Point : TP3001

TP6205

(Main C.B.A.) (Main C.B.A.)

Adjustment : R6201

(Main C.B.A.)

Specification: T = 6 + /- 1H (0.38 + /- 0.06msec.)

Mode

SP Playback

Equipment

: Oscilloscope, VHS Alignment Tape (VFMS0003H6)

- 1. Connect the channel-1 scope probe to TP3001 and the channel-2 scope probe to TP6205. Trigger from channel-2.
- 2. Playback the VHS alignment tape, and then connect TP6003 to GND to be in PG Shifter Adjustment mode.
- 3. Adjust the R6201 (PG SHIFTER) so that the leading edge of the head switching pulse is placed 6H +/- 1H (0.38 +/-0.06msec.) before the start of the vertical sync pulse.
- 4. Disconnect TP6003 and GND to set the adjustment value of PG Shifter.

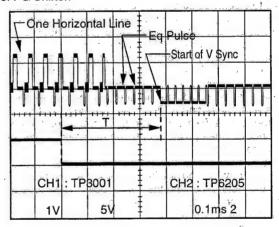


Fig. E2

INPUT LEVEL ADJUSTMENT

(Model: E, F, G)

Purpose:

To fix the output level of Tuner.

Symptom of Misadjustment:

The L and R channels of the STEREO signal will not be separated properly.

The L channel will contain part of the R channel signal or vice versa.

Test Point Adjustment : R7007

: Pin 4 of U4901

(Main C.B.A.)

Specification: 245 +/- 8mVrms (693 +/- 23mVp-p)

(Main C.B.A.)

Input

: Antenna Input Terminal

MONO 300Hz +/- 5Hz 100% Modulating

Mode

: STOP

Equipment

: AC Millivolt Meter, MTS/SAP Signal Generator

1. Connect the AC Millivolt Meter to pin 4 of U4901.

Connect the MTS/SAP Signal Generator to the RF Input on the VCR. Set the MTS/SAP Signal Generator as follows. MONO 300Hz +/- 5Hz

100% Modulating

3. Tune the VCR to the appropriate channel (same as that provided by the signal generator) and adjust the R7007 ((MPX) INPUT LEVEL) so that the voltage at pin 4 of U4901 is 245 +/- 8mVrms.

Note:

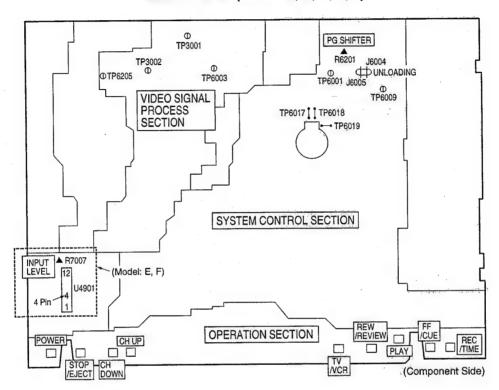
If the generator cannot produce 100% modulation, multiply the specification provided in step 3 by the modulation level used (available).

Example:

30% (Modulation) X 245 +/- 8mVrms (Specification) = 73.5 +/- 2.4 mVrms (New Specification).

TEST POINTS AND CONTROL LOCATION

Main C.B.A. (Model: A, B, C, E, F)

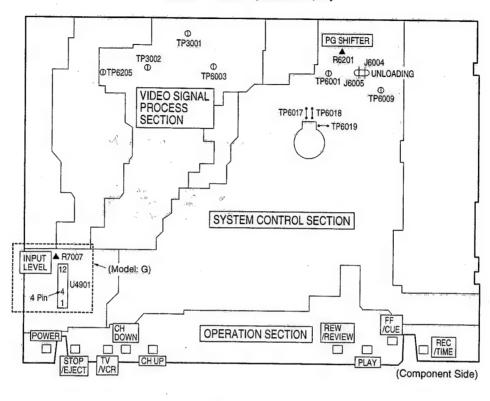


FUNCTION OF IMPORTANT TEST POINTS					
TP3001	Video Signal to Jack				
TP3002	REC/PB Video envelope sig	nal			
TP6001	Service Test Point (inhibit sensors)				
TDCCCC	defeat Auto tracking function (connect to +5V(TP6009))				
TP6003	PG Shifter Adjustment Mode (connect to GND)				
TP6009	+5V				
TP6205	Head SW.				
TP6017		Mode Position (A)			
TP6018	Mode Select SW. Position	Mode Position (B)			
TP6019		Mode Position (C)			

Test Point Information

 $\ensuremath{\mathbb{O}}$ Test Point with a jumper wire across a hole in the P.C.B.

Main C.B.A. (Model: D, G)



	FUNCTION OF IMPORTA	INT TEST POINTS		
TP3001	Video Signal to Jack			
TP3002	REC/PB Video envelope signal			
TP6001	Service Test Point (inhibit sensors)			
TP6003	defeat Auto tracking function (connect to +5V(TP6			
170003	PG Shifter Adjustment Mode	e (connect to GND)		
TP6009	+5V			
TP6205	Head SW.			
TP6017		Mode Position (A)		
TP6018	Mode Select SW. Position	Mode Position (B)		
TP6019		Mode Position (C)		

Test Point Information

 $\ensuremath{\square}$ Test Point with a jumper wire across a hole in the P.C.B.

SCHEMATIC DIAGRAMS AND CIRCUIT BOARD LAYOUT SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES

1. Important safety notice Components identified by the sign 1 have special characteristics important for safety. When replacing any of these components. Use only the specified parts.

2. Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since this drawing was prepared.

3. Use only original replacement parts: To maintain original function and reliability of repaired units. use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

4. Parts different in shape or size may be used. However, only interchangeable parts will be supplied as service replacement parts.

5. Test point information

① :Test point with a jumper wire across a hole in P.C.B.

:Test point with a component lead on the foil side.

:Test point with no test pin.

:Test point with a test pin.

Schematic Diagram Notes

1. Indication for Zener Voltage of Zener Diodes The Zener Voltage of Zener Diodes are indicated as such on Schematic Diagrams.

> Example: (6.2V).....Zener Voltage

2. How to identify Connectors

Each connector is labeled with a Connector No. and Pin No. Indicating what it is connected to, in other words, its counter part.

Use the interconnection schematic diagram to find the connection between associated connectors.

Example:

The connections between C.B.A.s are shown below.

Connector No.

on Main C.B.A.

JUNCTION C.B.A. MAIN C.B.A. P2531 P620 14 Pins

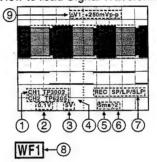
The Number of Pins of the Connector.

3. Parts enclosed in dashed lines marked "Z" are not used in any models included in this service manual.

> Example: C3010 0.01 R3002! Z 10K

Signal Waveform Note

How to read Signal Waveform



- Connecting Point
- **②** ③ Volts/Div
- Volts/Div
- Connecting Point
- Time/Div
- (6) Trigger Channel of the scope (1:CH1,2:CH2)
- Operation Mode of VCR
- Waveform Point on Schematic
- ΔV1:Peak to Peak

Voltage Chart Note

Voltage Measurement

- a. Color bar signal in SP mode.
- b. ---: Unmeasurable or not necessary to measure.

Circuit Board Layout Note

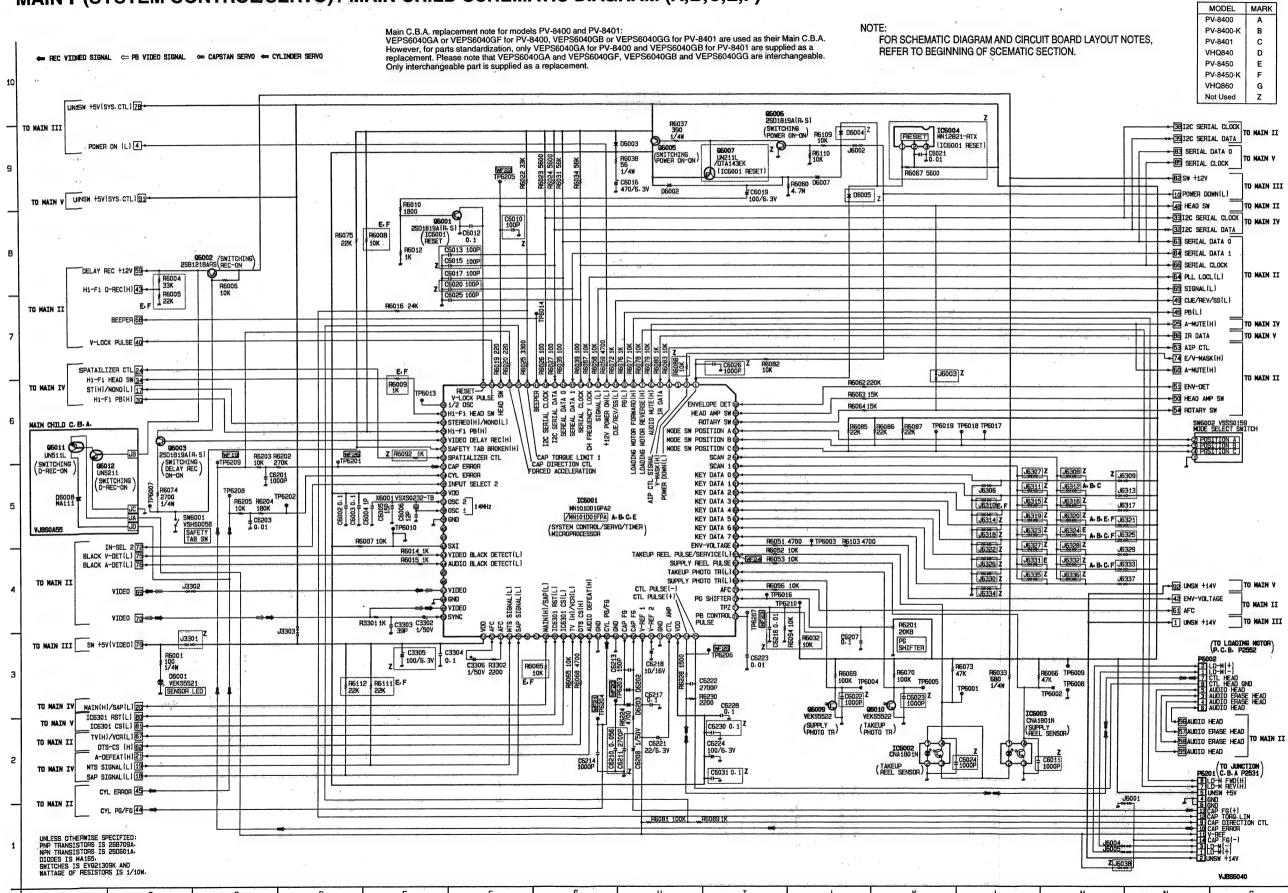
Circuit Board Layout shows components installed for various models. For proper parts content for the model you are servicing, please refer to the schematic diagram and parts list.

Comparison chart of models & marks

MODEL	MARK
PV-8400	A
PV-8400-K	В
PV-8401	С
VHQ840	D
PV-8450	Ε
PV-8450-K	F
VHQ860	G
Not used	Z ·

Note: Refer to item 3 of Schematic Diagram Notes for mark "Z".

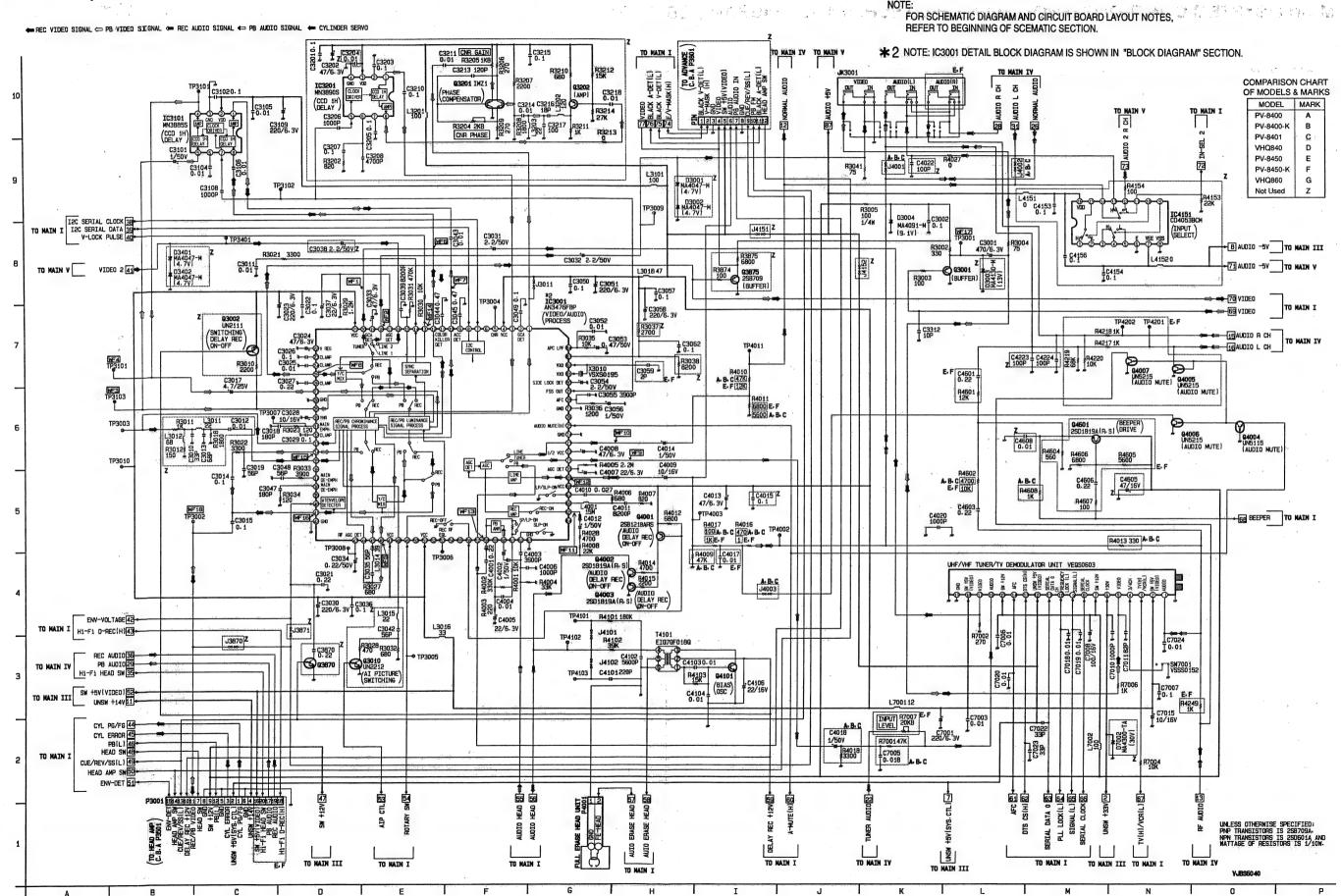
SCHEMATIC DIAGRAMS MAIN I (SYSTEM CONTROL/SERVO) / MAIN CHILD SCHEMATIC DIAGRAM (A,B,C,E,F)



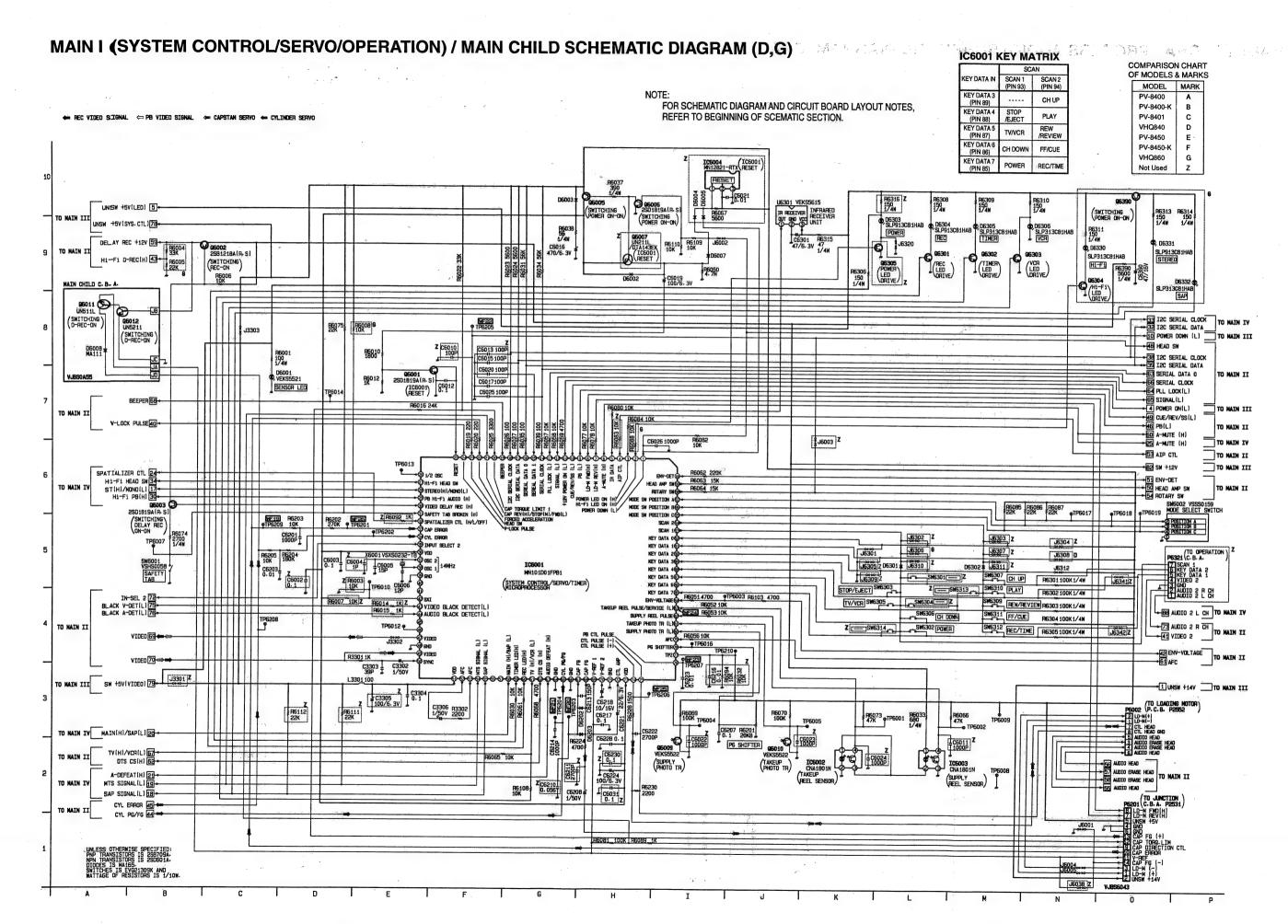
COMPARISON CHART

OF MODELS & MARKS

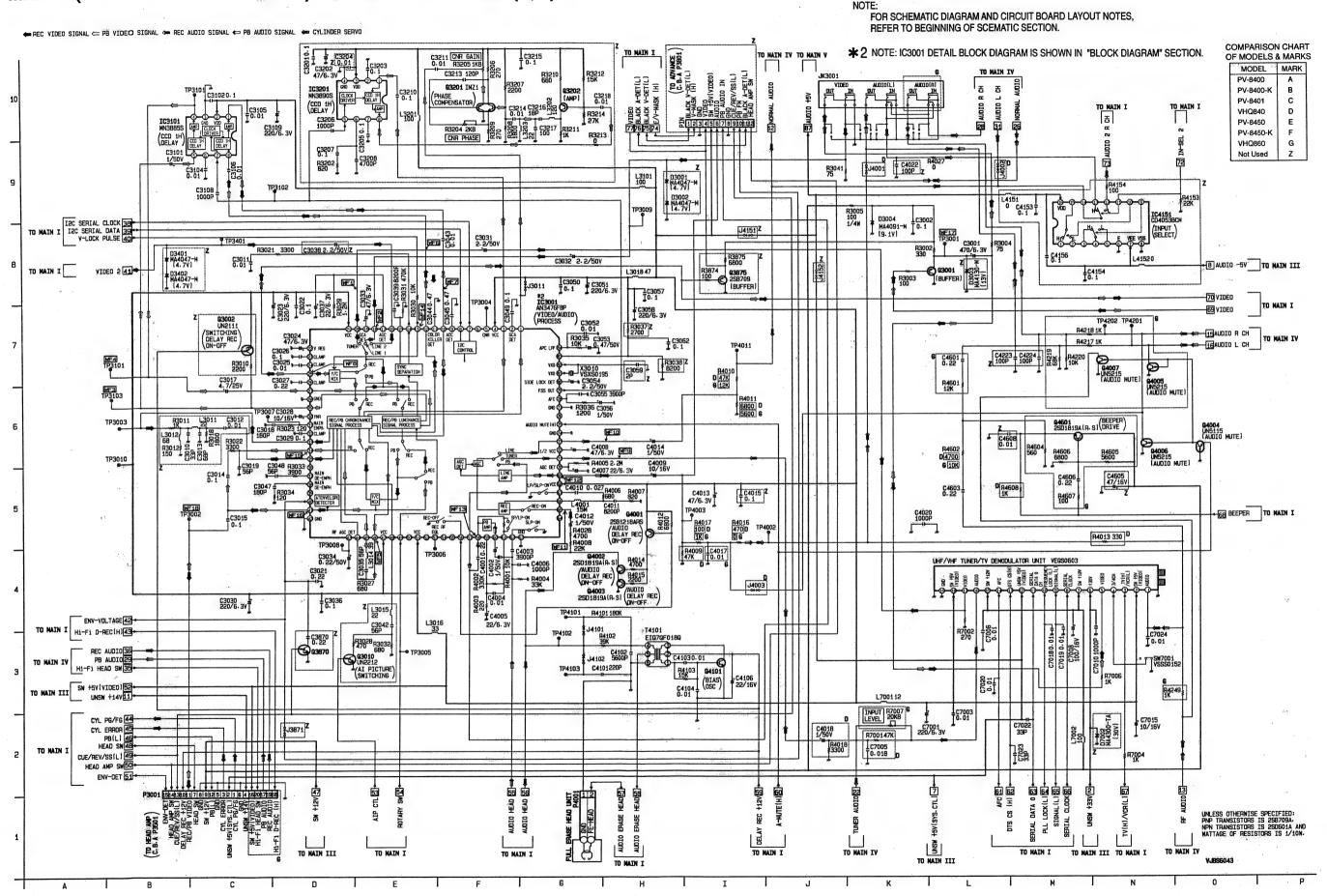
MAIN II (SIGNAL PROCESS/AUDIO) SCHEMATIC DIAGRAM (A,B,C,E,F)



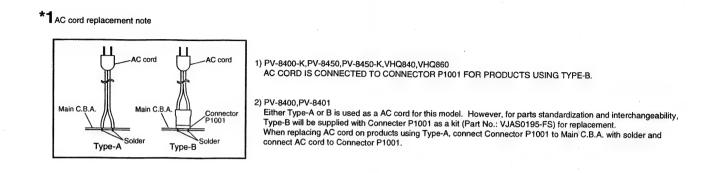
ANT LITTER

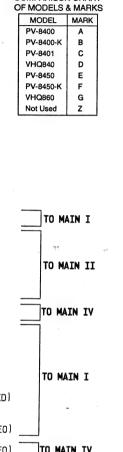


MAIN II (SIGNAL PROCESS/AUDIO) SCHEMATIC DIAGRAM (D,G)



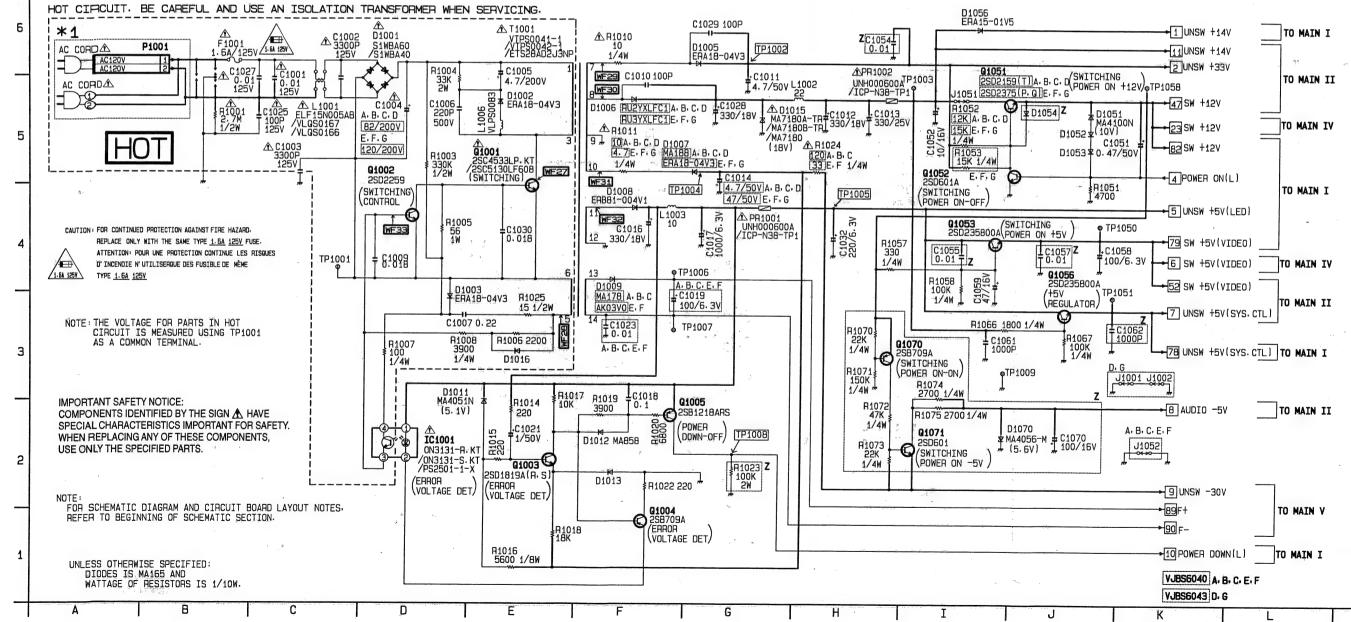
MAIN III (POWER SUPPLY) SCHEMATIC DIAGRAM





COMPARISON CHART

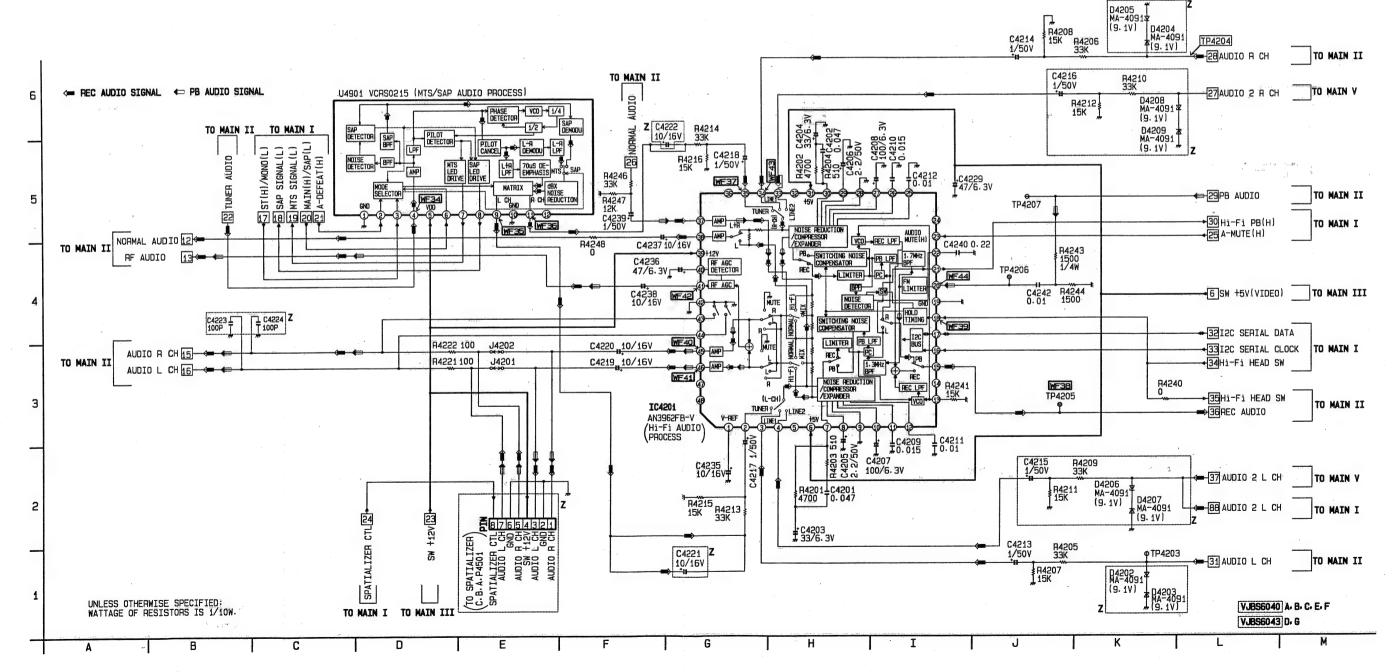
The state of the s

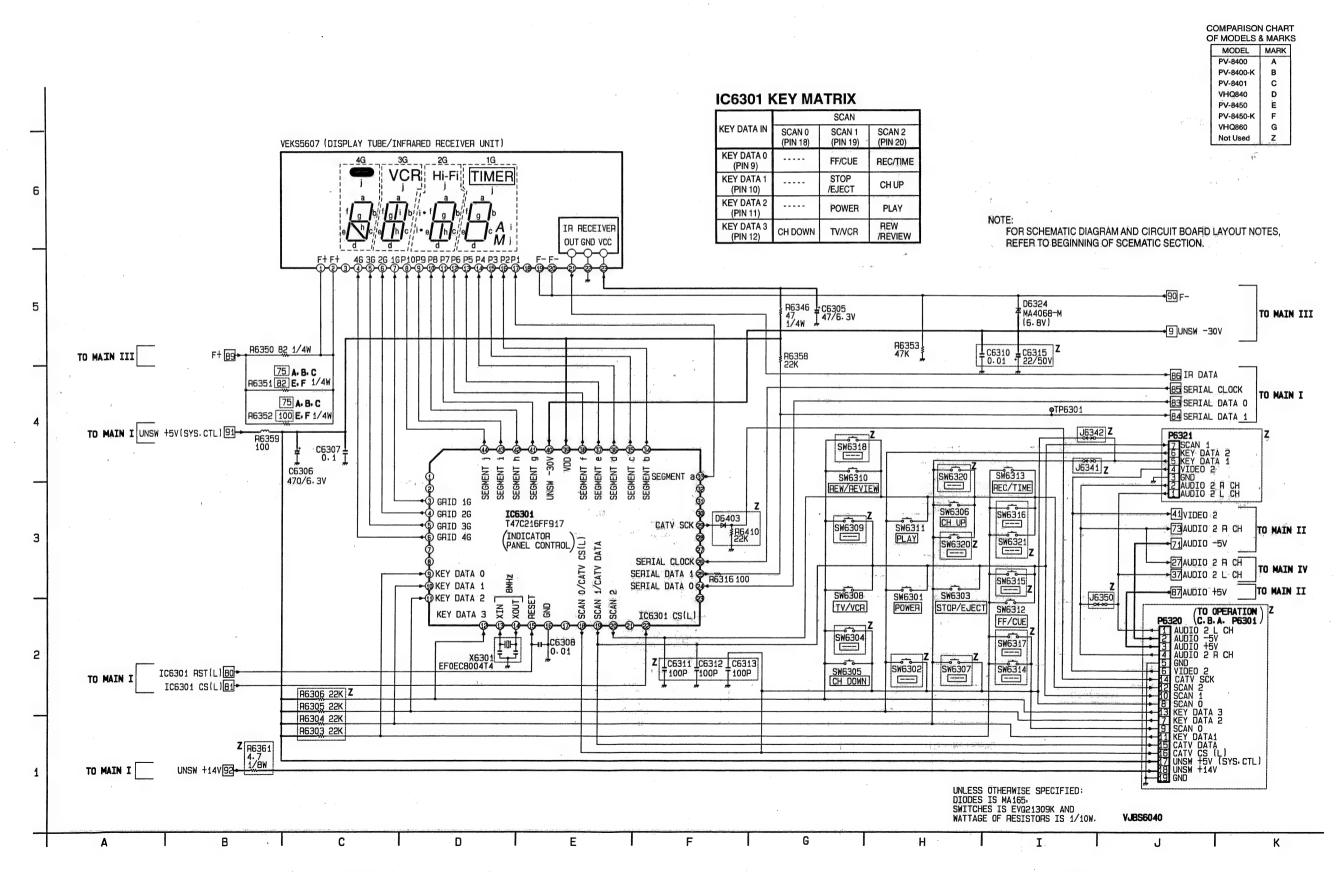


IOTE:
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,
REFER TO BEGINNING OF SCEMATIC SECTION.

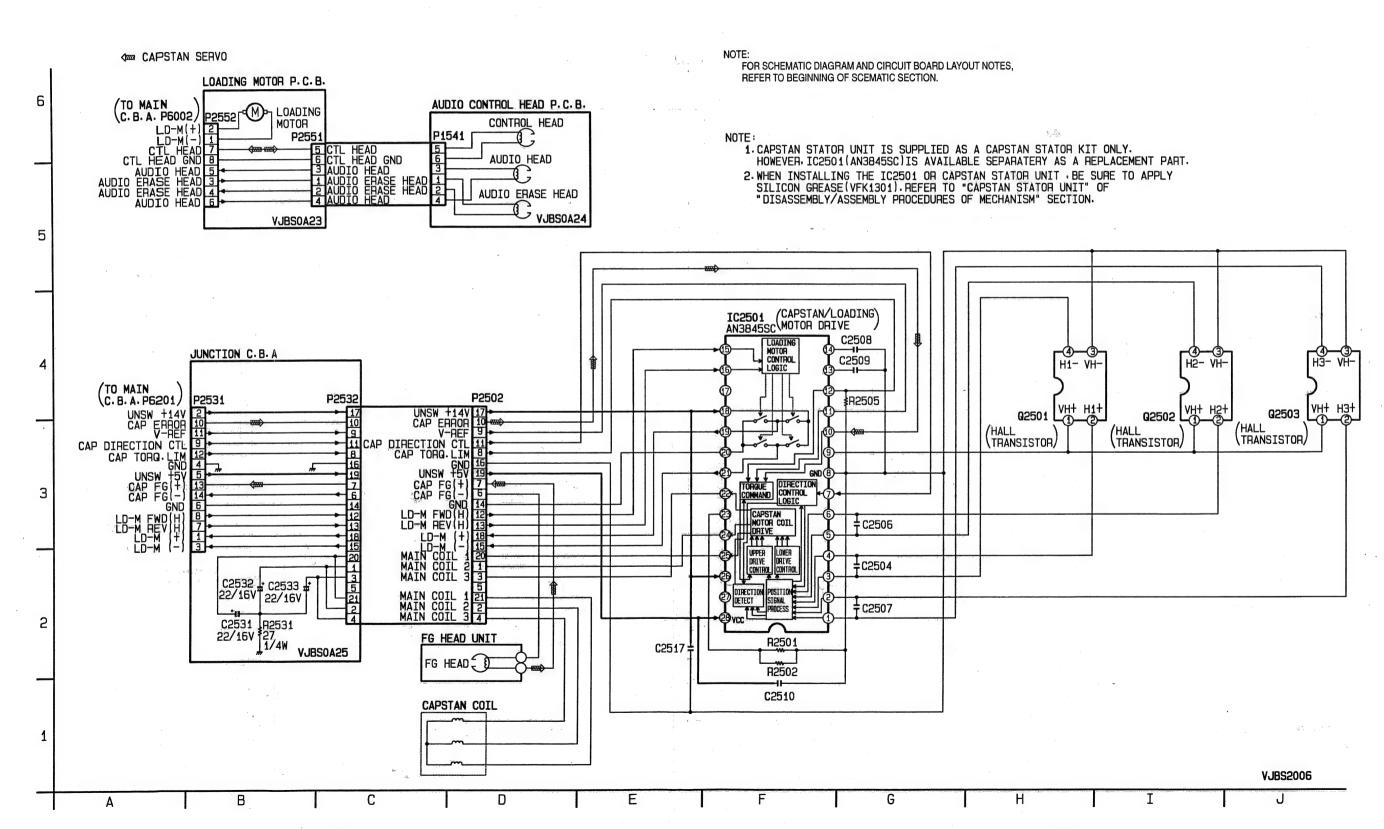
COMPARISON CHART
OF MODELS & MARKS

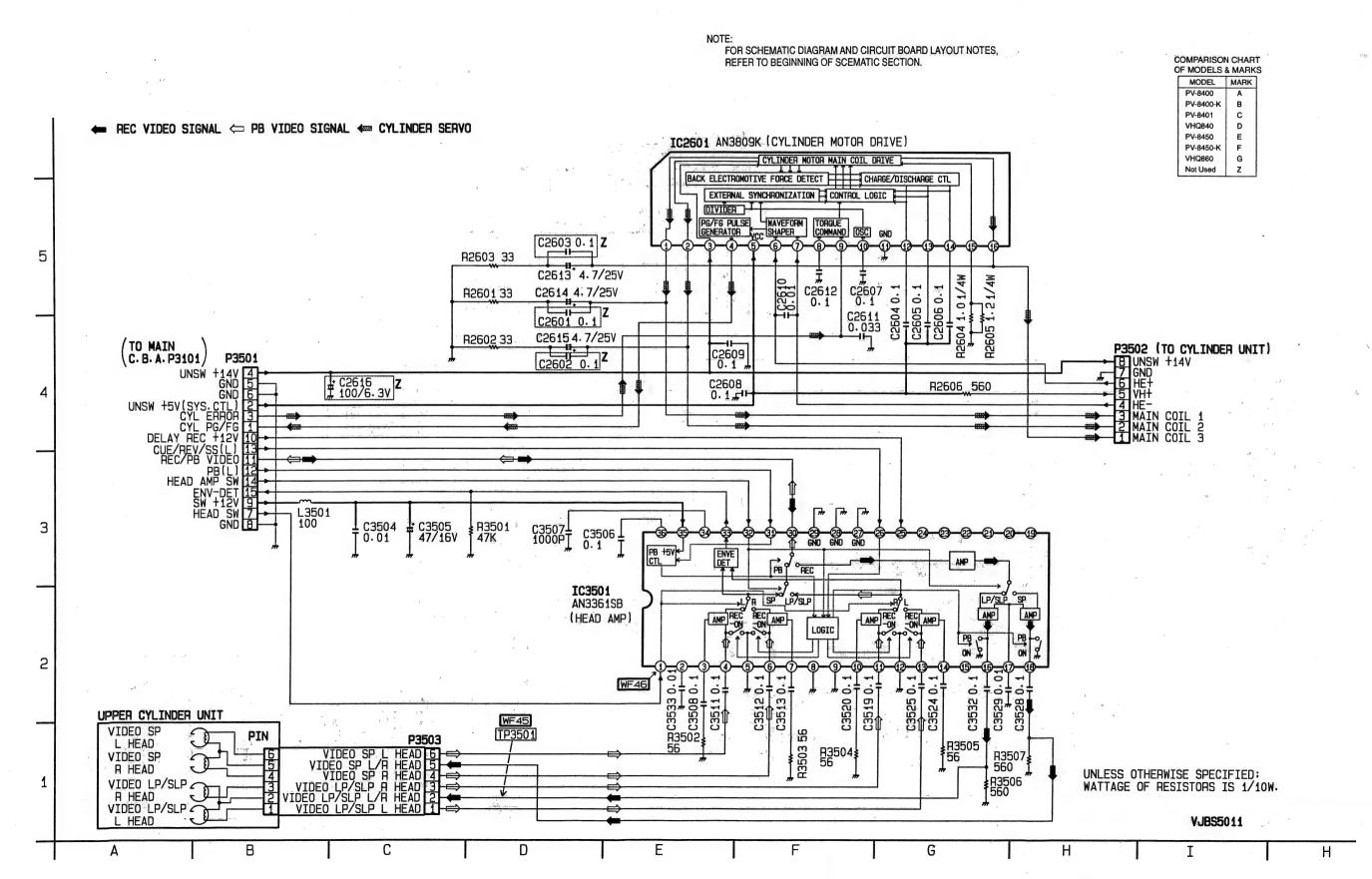
MODEL MARK
PV-8400 A
PV-840-K B
PV-8401 C
VHQ840 D
PV-8450 E
PV-8450-K F
VHQ860 G
Not Used Z





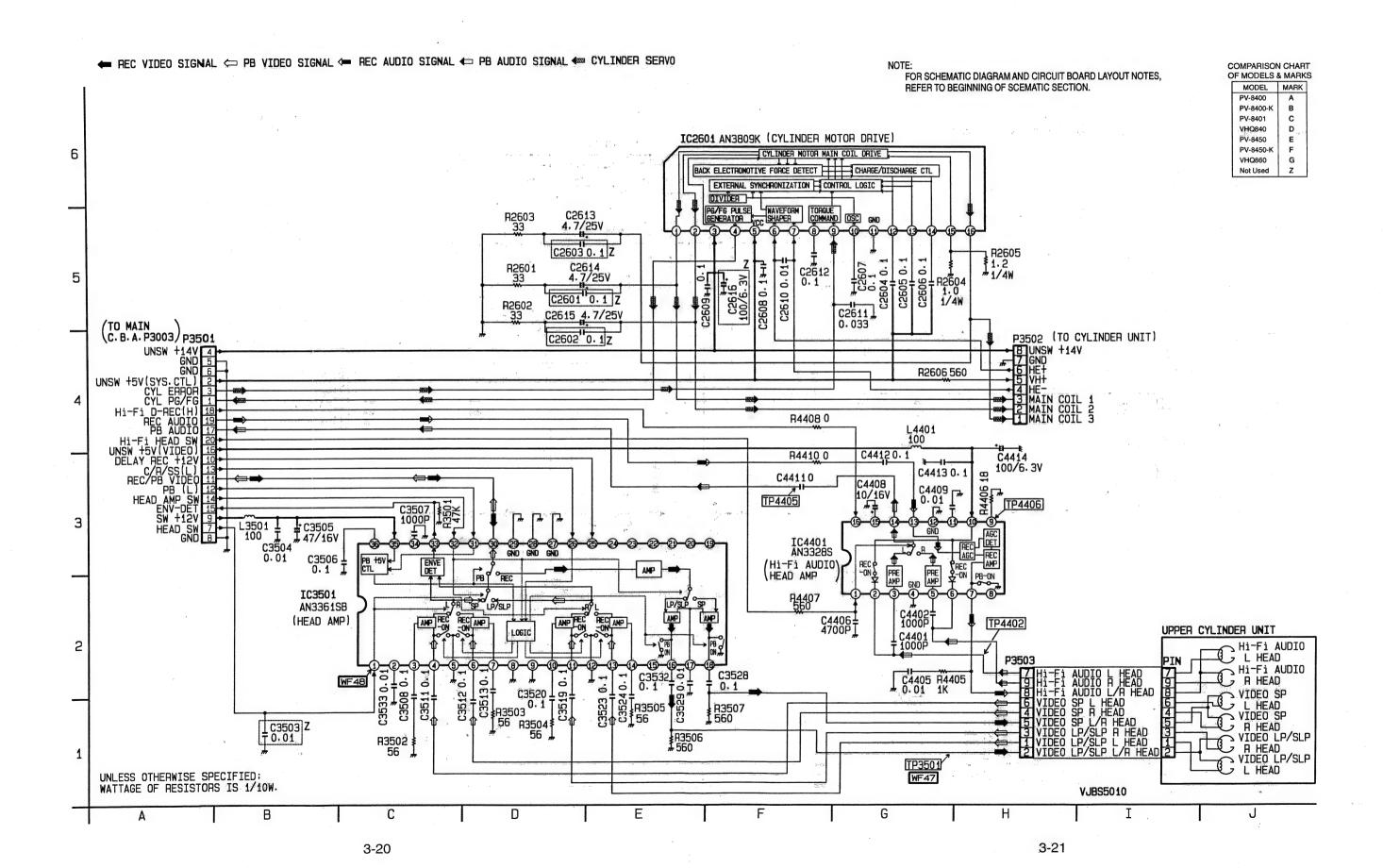
CAPSTAN STATOR / JUNCTION / LOADING MOTOR / AUDIO CONTROL HEAD SCHEMATIC DIAGRAM





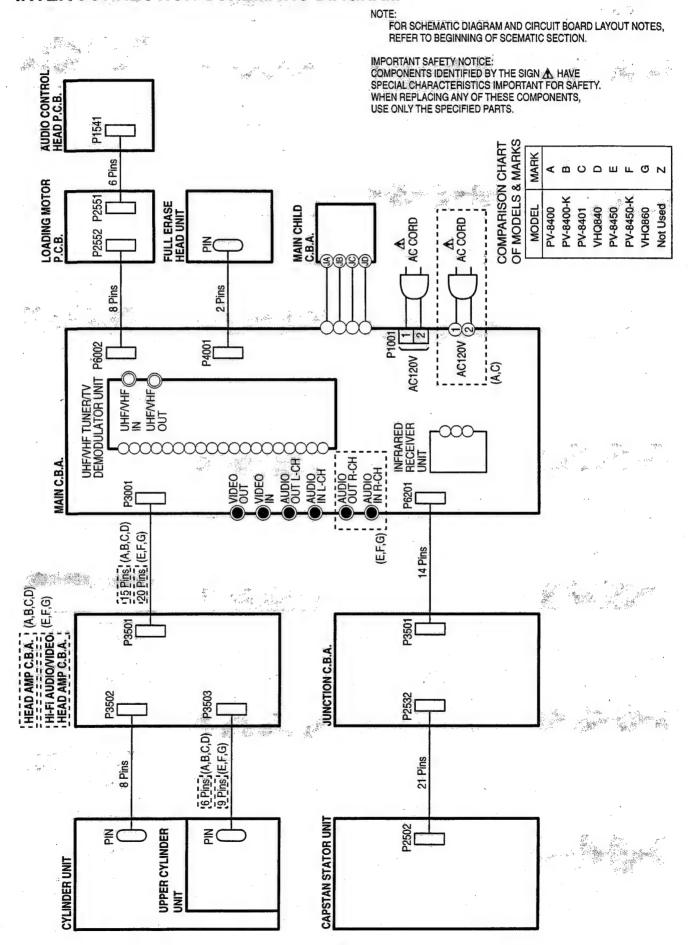
A BUSINESS OF BOLD OF BUSINESS AND A CONTRACT OF THE PARTY OF THE PART

Hi-Fi AUDIO/VIDEO HEAD AMP SCHEMATIC DIAGRAM (E,F,G)



and the second of the second o

INTERCONNECTION SCHEMATIC DIAGRAM



NOTE: SIGNAL WAVEFORM FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCEMATIC SECTION. MAIN C.B.A. ΔV1 +280mVp-p CH1 TP3002 20µ81 20µs1 0.10 WF13 CH1 WF18 (A,B,C,D) WF7 WF1 CH2 WF22 (A,B,C,D) ΔV1 +4.4Vp-p ∆V1 +1.000Vp-p PIN 13 OF IC3001 PB 2٧ 0.10 20µ81 20us1 0.57 **WF14** WF2 ∆V1 +0.410Vp-p PIN 34 OF IC3001 PIN 25 OF 103001 REC/P PB PB TP3103 0.2V 20µ81 0.2V WF15 WF8 WF3 CH1 WF18 (A,B,C,D) CH2 WF22 (A,B,C,D) PIN 41 OF IC300 REC TP3101 0.2V 50mV 0.2V WF4 **WF16** ∆V1 +100.0mVp-p ∆V1 +220.0mVp-r PIN 46 OF IC3001 PIN 73 OF 1C3001 50mV 0.2V 0.5ms1 5ms 1 WF16 WF10 WF5 CH1 WF18 (A,B,C,D) CH2 WF22 (A,B,C,D) ∆V1 +2.60Vp-p **COMPARISON CHART** REC REC PIN 12 OF IC3001 OF MODELS & MARKS 11 0.5ms1 0.17 MODEL **WF11** WF17 WF6 PV-8400 ∆V1 +340mVp-p PV-8400-K ∆V1 +1.50Vp-p PV-8401

PB SP

MARK

В

C

D E

> F G

> Z

VHQ840

PV-8450 PV-8450-K

VHQ860

Not Used

REC/PI

0.5ms1

0.57

WF12

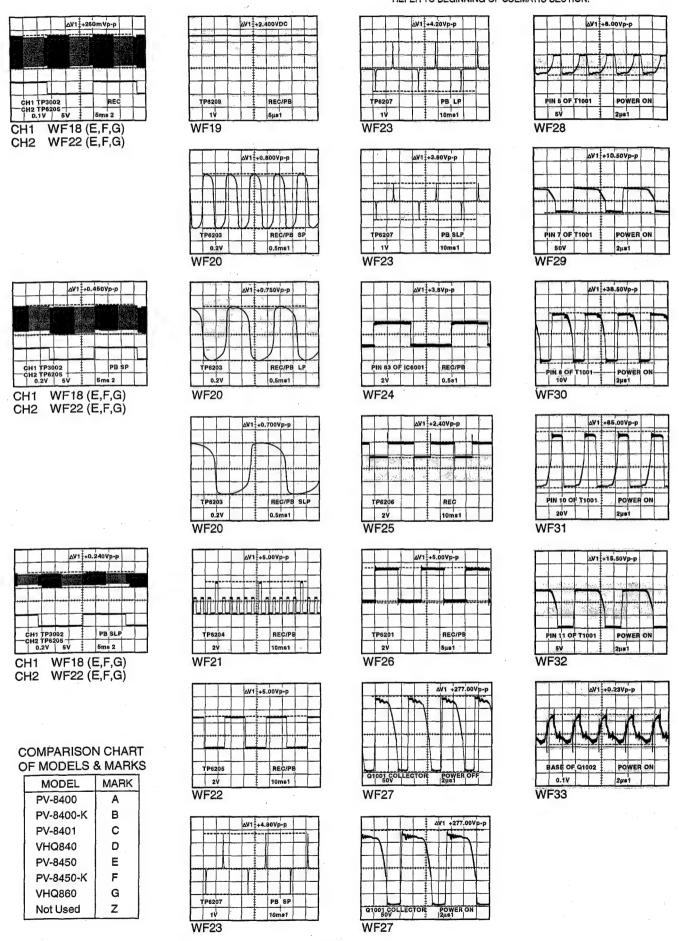
PIN 12 OF IC3001

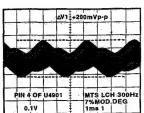
WF6

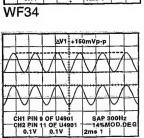
PB

20µ81

NOTE: FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCEMATIC SECTION.







WF41

0.5V

0.17

0.2V

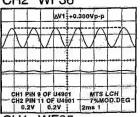
WF44

WF43

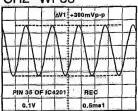
REC

WF42

CH1 WF35 CH2 WF36



CH1 WF35 CH2 WF36



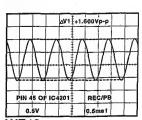
WF37

		ΔV1	+28	0mV	p-p	J	1
+	1000		1		-	-	+
			Ŧ				L
			‡				1_
					nesia	2000	News.
			10000				
			71,821	100 K			
			700				
TP42	05			REC			
77337				ЯЕО 0.5µ			

WF38

		-			Δ٧1	+5.	oov	-р	_	
		L								
21	}	-		•••	6		430			
	,		S. Marie							
				1,304					,,,,,	-
			1							
j	IN 1	8 ()F	IC4	201		PB	٠,		
	21	~	7				10ir	181		

WF39



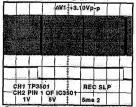
WF40

HEAD AMP C.B.A.

			ΔV1	+4.0	οVp	-p		
								1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	-					,,,,,		
CH1	TP35	01	103	Ē	RE	C SŁ	P	
2	v	5	,103	1	5ma	2		

CH1 WF45 CH2 WF46

Hi-Fi AUDIO/VIDEO



CH1 WF47 CH2 WF48

NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCEMATIC SECTION.

HEAD AMP C.B.A.

	_		1	AV1	tia.	ase-		7	$\overline{}$
				TAG !!	70.	OAb	P		
	2,1200	4	O.		MARKET .	188	100	100	
	翻器	ZHZ.	1					170	
	12/59	1827	A.	370.00		885	55 E 5	and the	
TOTAL PARTY	PACE.	15.53		200	5 mil	E (2) 4	300	36	
20727	0.97	575775	1000	W.C.		0 (A) S	35 ES	K King	
1000			150			3 10 13	\$11.5	10	E.
6,7,98	NAME OF STREET	0.44%	2000	100	See.	1	Ales		2
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-		-	-		****		week.		2
	1	1 1			Ξ.				П
				-	-				1
	H1	Those	0.1	1	1	DE	C SL		
	Ho !	DIN	OF	100	-	Phar	. 31		
	The s		Ur	100	DU.	-	_	_	Γ
	1.4	/ 1	91		t	5me	12		

VOLTAGE CHART

MAIN / MAIN CHILD CIRCUIT

PLAY MODE REC PIN NO. IC1001 5.1 5.1 2 4.4 4.4 -54.0 3 -54.0 -53.8 4 -53.8 IC3001 5.1 5.1 2 3.4 3.4 3 2.1 2.1 4 5.1 5.1 5 4.3 4.3 6 5.2 5.2 8 5.2 5.2 9 2.2 2.2 10 2.8 2.8 11 0.8 0.8 12 2.8 2.8 0.4 13 0.4 0.5 14 0.5 15 0 0.9 16 3.1 3.8 17 2.4 1.8 3.1 5.7 18 2.6 2.6 19 3.1 20 4.0 21 5.1 5.1 22 0 2.0 23 2.6 2.4 24 2.6 2.4 25 2.0 2.0 2.5 26 2.6 27 2.0 2.0 28 0 0 29 1.9 1.8 30 1.9 1.6 2.0 1.2 31 2.4 2.4 32 2.7 2.7 33 3.0 2.8 34 35 2.6 2.6 36 2.5 2.5 37 0 1.5 38 4.4 2.3 39 0 1.5 2.4 40 3.8 41 0 0 42 0 0 43 3.4 3.3 44 2.6 2.6 2.6 45 2.6 2.6 2.6 46 47 5.1 5.1 48 1.3 1.3 49 2.7 2.7 50 3.8 3.1 51 5.1 5.1 2.5 52 2.5 2.5 2.5

53

•		
MODE	REC	PLAY
T DA DAOY		
54	4.1	0.1
55	0 0.1	0
56	0.1	4.4
57	0	2.6
58	2.6	2.6
59	2.6	2.6
60	2.6	2.6
61	2.6	2.6
62	0	0
63	0	0
64	1.6	1.8
65	2.6	2.6
66	0 2.6	2.6
67	2.6	0
68	5.2	0
69	2.6	2.6
70_	0.3	0
71	2.6	2.6
72	2.6	0
73	2.6	2.6
74	0	0
75	0	0
76	3.3	0
77	0 2.1	0
78	2.1	0
79	3.0	0
80	. 0	2.0
81		***
82		
83	2.6	0
84	2.5	0
IC3101		0.4
1	3.4	3.4
2	-2.5	-2.5
3	0	0
4	2.5	2.5
5	2.5	2.5
6	-2.7	-2.7
	2.1	2.1
8	3.0	3.0
IC4201	0.0	0.0
2_	2.6	2.6
2	2.6	2.6
3 4 5 6	2.6	2.6
4	2.6	2.6
2	E 4	5.1
7	5.1	2.6
7 8	2.6	2.0
9	2.6	2.6
	0	0
10	2.6	2.6
10	2.6	2.6
11 12 13	2.6	2.6
13	2.6	2.6
14		
15	2.6	2.6
16	4.2	4.2

17

18

4.0

0

4.0

0

MODE	REC	PLAY
PIN NO.\ 19	2.6	2.6
20	2.6	
21	0	0
22	0	. 0
23	0	0
24		7
25	0	2.0
26	2.6	2.6
27	2.6	2.6
28	0	0
29	1.6	1.6
30	2.7	2.7
31	0.1	0
32		
33	0	2.6
34	2.6	2.6
35	2.6	2.6
36		
37	2.6	2.6
38	2.6	2.6
39	11.3	11.3
40	0.5	0.5
41	6.2	6.2
42	0	0
43	0	0
44	0	0
45	6.2	6.2
46	6.2	: 6.2
47		i i i i
48		
IC6001	5.2	FO
2	0	5.2
	0	0
3	U	
5	5.0	5.0
6	0	0
7	0	0
8	0	
9	5.0	0
10	0.5	
11	0.0	0
12		5.2
13	0.2	0
14	4.9	4.9
15		
16	2.2	0.6
17	5.2	5.2
18	5.2	5.2
19		
20	0.2	4.9
21	0	0.
22	2.2	2.3
23	2.5	2.5
24	0	0
25	5.0	5.0
26	2.5	2.5
27	0	2.5
00	-	

NOTE: FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCEMATIC SECTION.

MODE	REC	PLAY
PIN NO.	HEU	PLAT
29	4.7	4.7
30	5.0	0
31	0.1	0
32		
33	2.2	2.0
34	2.4	2.4
35	E 4	5.1
36 37	5.1 2.5	3.1
38	2.5	
39	0	0
40		÷pi,
41		
42	0	0
43		
44		44,4
45		
46 47	1.0 1.9	1.0 1.9
47	0	0
49	0	1.9
- 50	2.6	2.6
51	5.1	´5.1
52	2.5	~2.5
- 53	2.6	2.6
54	5.2	5.2
55	5.2	5.2
56		242
57 58	4.9	4.9
59	5.0	5.0
60	1.7	1.7
61	0	.0
62	0.4	0.4
63	5.0	5.0
64	0	0
65	1.0	1.0
66	0	0
67	2.5	2.5
68 69	2.5 2.5	2.5 2.5
70	2.5	2.5
71	0	0
72	2.5	2.5
73	5.0	5.0
74	5.0 2.9	
75	2.1	
76	2.5	2.5
77	1.9	2.2
78 70	3.5	3.5
-79 80	5.0 4.7	5.0 4.6
81	5.0	5.0
82	5.1	5.1
83	5.1	1.2
84	3.8	2.8
.85	5.2	.5.2
86	4.8	4.8
87	5.2	5.2

MODE	REC	PLAY
PIN NO.		
88	1.8	1.9
89	5.2	5.2
90	5.2	5.2
91	0	0
92	0	0
93	4.7	4.7
94	1.9	1.9
95	0	.0
96	5.2	5.2
97	0	0.2
98	2.5	2.5
99	5.0	5.0
100	0.2	0
IC6002		-0
	1.0	10
1	1.2	1.2
A Marian Contract of	0	0
3	1.2	1.2
4		.,
IC6003		
1	2.4	2.4
2	1.2	1.2
3	0	0
4		4-4-
IC6301		
1		
2		
3	-26.5	-26.5
4	-26.5	-26.5
5	-26.5	
6	-26.5	-26.5
7		***
8		
. 9	5.2	5.2
10	5.2	5.2
11	5.2	5.2
12 13	5.2	5.2
13	2.3	2.3
14	2.6	2.5
15	5.1	5.1
16	0	.0
• 17		
18	2.0	1.9
19	2.0	1.8
20	2.1	2.1
21	5-1	
22	1.3	1.3
23	1.0	1.0
	. 0	17
	5.1	4.7
25		5.2
26	4.7	4.7
27		, /84g
28		****
29	-31.0	5.0
30		, <u>-</u>
31		.av **y
32		
33	-18.0	-21.9
34	-26.3	-18.0
35	-30.5	-21.7
UJ .	-00.0	SECOLAR S

0

28

0

NOTE: FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCEMATIC

MODE PIN NO.	REC	PLAY
36	-21.8	-21.6
37	-21.8 -17.5	-17.5
38	-17.5	-13.5
39	5.2	5.2
		01.0
40	-31.0	-31.0
41	-21.7	-17.2
42	-26.1	-30.5
43	-26.0	-30.5
44	-21.7	-30.5
Q1001		
E C	0	0
С	133.5	133.5
В	0.3	0.3
Q1002	0.0	0.0
E	0	0
C	0.3	0.3
В	0.6	0.6
Q1003	0.0	0.0
	0.0	
E	-0.6	-0.6
С	4.1	4.1
В	0	0
Q1004		
E	4.4	4.4
C	0.1	0.1
В	4.1	4.1
Q1005		
E	5.1	5.1
E C	5.1 5.2	5.2
В	4.7	4.7
Q1051		- '
E	12.0	12.0
<u>-</u>	13.2	13.2
B		10.2
	11.6	12.6
Q1052		
E	0	0
С	11.6	12.6
В	0.7	.0.7
Q1053		
E C	5.3	5.3
	5.1	5.1
В	6.0	6.0
Q1056		
E	5.3	5.3
E C	5.1	5.1
В	6.0	6.0
Q3001	3.0	0.0
E	2.8	2.8
C	0	0
 		
B	2.0	2.0
Q4001	F 4	7/E 14
E	5.1	5.1
C	-18.7	5.1
В	5.1	4.4
Q4002		
E	-13.6	0
C	0	0
В	-19.1	0.8
Q4003		

LIODE	DE0 1	B) AV
MODE PIN NO.	REC	PLAY
E	-13.6	0
C	0	0
В	-18.6	0.8
Q4004	10.0	0.0
E	0	0
C	2.5	2.5
В	0	0
Q4005	0	
E	0	0
C	0	0
В	2.5	2.5
Q4006		2.0
E	0	0
C	0	0
В	2.5	2.5
Q4007	2.0	2.5
E	0	0
C	6.2	6.2
В	2.5	2.5
Q4101	2,5	2.0
E	0	0
C	11.3	0.5
В	0.2	0.5
Q4601	0,2	0.0
E	5.8	5.8
C	12.0	12.0
B	6.4	6.4
Q6001	0.4	0.4
E	0	0
E C	5.0	5.0
В	0	0
Q6002		-
E	12.1	12.1
Ċ	11.8	0.5
В	11.8 12.1	0.5 11.2
Q6003	12.1	1115
E	0.4	0
C	11.2	12.1
		0
Q6005	- 5.0	
E	5.1	5.1
C	5.1	5.1
В	4.4	4.4
Q6006	7.7	7.7
	0	0
C	. 0	0
В	0.8	0.8
Q6009	0.0	0.0
E	0	0
C	0 5.1	5.1
В	J. I	0,1
Q6010		
E	0	0
C	5.1	5.1
В	U. I	ا .ن
Q6011		7 .
E	2.5	0.5
C	1.8	2.5 0
	1.0	
В	0.7	0

MODE	REC	PLAY
PIN NO.	1120	L P(2)
Q6012		71 -0
F	0	0
E C	0.7	.0
В	11.8	0.5
Q6301	11,0	0.0
	0	0
C	5.1	0
E C B	0	0
Q6302		U
E	0	0
-		5.1
C B	5.1	-
Q6303	U	0
		0
E	0	0
C	12.0	12.0
В	0	0
Q6304		
E C	0	0
C	0	0
В	5.1	5.1
Q6390		
E	5.1 5.1	5.1 5.1
В	0	0
TP1001	0	0
TP1002	36.5	36.5
TP1003	13.5	13.5
TP1004	-30.0	-30.0
TP1005	0	0
TP1006	-18.9	-18.9
TP1007	-24.2	-24.2
TP1008	-24.2 5.1	5.1
TP1009	0	0
TP1050	5.3	5.3
TP1051	5.3	5.3
TP1058	12.0	12.0
TP3001	2.8	2.8
TP3002	2.7	2.3
TP3003	2.7	2.7
TP3004	4.3	4.3
TP3005	2.6	2.6
		2.0
TP3006 TP3007	2.5	2.5
TP3007	2.1	2.1
	-	3.4
TP3009	0	0
TP3010	5.1	5.1
TP3101	3.2	3.2
TP3102	3.0	: 0
TP3103	1.8	1.8
TP4002	0	.0
TP4003	0	0
TP4011	. 0	0
TP4101	. 0	0
TP4102	0	- 0
TP4103	0	0
TP4201	0	0
TP4202	0	0
TP4203	0	0

MODE	REC	PLAY
PIN NO.\		
TP4204	0	0
TP4205	2.7	2.7
TP4206	2.7	2.7
TP4207	0	0
TP6001		-
TP6002	5.2	5.2
	0.4	
TP6003	3.4	2.3
TP6004		5.1
TP6005		5.1
TP6007	0	0
TP6008	0	0
TP6009	5.2	5.2
TP6013	2.5	2.5
TP6016	3.5	3.5
TP6017	0 5.2	5.2
TP6018	5.2	
TP6019	0	0
TP6201	2.2	2.2
TP6202		
TP6203	2.5	25
TP6204	1.0	2.5 1.0
	1.0	1,0
TP6205	2.6	2.6
TP6207	2.5	2.5
TP6208	2.6	2.6
TP6209		
TP6210	1.9	2.2
TP6301	5.2	2.2 5.2
11 0001	0.2	- U.L
-		-
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-	-	
		
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CAPSTAN STATOR

IRCUIT		
	REC	PLAY
MODE	REC	PLAT
PIN NO.		
IC2501	40.0	40.0
1	13.0	13.0
2	13.0	13.0
3	13.5	13.5
4	1.2	1.2
5	1.2	1.2
	1.2	1.2 2.7
7	1.2 0.1	2.7
8	0	0
9	2.6	2.6
10	1.5	1.5
11	2.6	2.6
		0.5
12 13	0.5	
13	3.9	3.9
14	3.9	3.9
15	0	0
16	0	0
17		
18	13.5	13.5
19	2.8	2.8
20	0	0.7
21	2.8	2.8
22		
	0.2	0.7 1.4
23	0.2	
24	0	0
25	0	0
26	13.5	13.5
27		
`		

EAD AN	IP CIR	CHIT
	REC	PLAY
PIN NO.\		
IC2601		
1	13.0	13.0
2	13.0	13.0
3	13.5	13.5
	13.5 1.2	13.5 1.2
4	1.2	1.2
5	5.1	5.1
6	0.9	0.9
7	1.0	1.0
8	0.7	0.7
9	2.6	2.6
	2.6	2.0
10	1.5	1.5
11	0	0
12	3.9	3.9
13	3.9	3.9
14	3.9	3.9
		0.1
15	0.1	
16	13.2	13.2
IC3501		
1	2.6	2.6
2	0	
3	0.3	1.4
		0.7
4	0	0.7
5	0	0
6	0	0.7
7	0.2	1.4
8	0	0
9		0
	0	
10	0	0
11	0	0
12	0	. 0
13		
14	6.3	0
15	6.3	
16	6.3	0
17	6.3	0
18	6.3	0
19		
20	-	-
21		***
22 23	0	0
23	0	0
24	0	0
24 25 26 27 28 29 30 31 32 33	11.9	0.5
20	11.0	0.0
20	0 0	0 0 0 0 0 0 2.3 0.1
27	0	1.0
28	0	0
29	0 2.7 5.1	0
30	27	23
21	E 1	0.1
01	0.1	1.0.1
32	0	0
33	0	0
34	0	0
35	120	120
36	12.0	0 12.0 5.0
30	U. I	3.0
	V-10-170	
		- N. J.
		A STATE OF THE PARTY.

Hi-Fi AUDIO/VIDEO

HEAD A		
MODE	REC	PLAY
PIN NO.	1120	
IC2601		
1	13.0	13.0
2	13.0	13.0
	13.5	13.5
4	1.2	1.2
5	5.1	5.1
6	0.9	0.9
7	1.0	1.0 0.7
8	0.7	0.7
9	2.6	2.6
10	1.5	1.5
11	0	0
12	3.9	3.9
13	3.9 3.9	3.9
14 15	0.1	0.1
16	13.2	13.2
IC3501	13.2	10.2
1	2.6	2.6
2	0	4.2
3	0.3	1.4
4	0.0	0.7
5	0	0
6	0	0.7
7	0.2	1.4
8	0	0
9	0	0
10	0.2	2.2
11	0	0
12	0	0
13	0	0
14	0.2	2.2
15		
16	6.3	0
17	6.3	0
18 19	6.3	0
19		
20		
21		
22		
23		
24	11.0	0.5
25	11.9 5.0	5.0
26	0	0
27 28	0	0
20	0	0
29 30	27	2.3
31	2.7 5.1	0.1
32	0.1	0.1
33	0.1	0
34	0.1	0.7
35	12.0	12.0
36	0.1	5.0
IC440	1	
1	0	2.6
2	4.0	
3	0.6	0
	1 0	0

NOTE: FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCEMATIC SECTION.

MODE	· DEC. I	PLAY
MODE PIN NO.	REC	PLAY
PIN NO.\	0.6	0.7
6	4.0	0
7	1.0	1.0
8	0.7	0.7
9	2.6	26
10	2.6 5.1	2.6 5.1
10	5.1	0.1
11	0	0
12	0	0
13	3.9	3.9
14	3.9	3.9 0.1
15 16	0.1	0.1
16	13.0	13.0
TP3501	0	0
TP4402		
TP4405	0	0
TP4406		2.6
11 4400	2.0	2.0
		-
	-	-
	-	
		1
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		+
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	70	
	1	1
No observe		1
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		-
	1	-
		1
	Tolerand, on	
100 mg		
	19 Marin 1 11	-
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NOTE:
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,
REFER TO BEGINNING OF SCEMATIC SECTION.

SYSTEM CONTROL/SERVO

PIN NO. 13.0 13.0 13.0 2 13.0 13.0 13.0 13.0 3 13.5 13.5 13.5 4 1.2 1.2 1.2 1.2 1.2 6 1.2 1.2 1.2 1.2 7 0.1 0.1 0.1 8 0 0 0 0 9 2.6 2.6 2.6 10 1.5	MODE	STOP	FF	REW
1 13.0 13.0 13.0 2 13.0 13.0 13.0 3 13.5 13.5 13.5 4 1.2 1.2 1.2 5 1.2 1.2 1.2 6 1.2 1.2 1.2 7 0.1 0.1 0.1 8 0 0 0 9 2.6 2.6 2.6 10 1.5 1.5 1.5 11 2.6 2.6 2.6 12 0.5 0.5 0.5 13 3.9 3.9 3.9 14 3.9 3.9 3.9 15 0 0 0 16 0 0 0 17 18 13.5 13.5 13.5 19 2.8 2.8 2.8 20 0 0 0 21 </td <td>PIN NO.</td> <td></td> <td></td> <td></td>	PIN NO.			
2 13.0 13.0 13.0 3 13.5 13.5 13.5 4 1.2 1.2 1.2 5 1.2 1.2 1.2 6 1.2 1.2 1.2 7 0.1 0.1 0.1 8 0 0 0 9 2.6 2.6 2.6 10 1.5 1.5 1.5 11 2.6 2.6 2.6 12 0.5 0.5 0.5 13 3.9 3.9 3.9 14 3.9 3.9 3.9 15 0 0 0 16 0 0 0 17 13.5 19 2.8 2.8 2.8 20 0 0 0 21 2.8 2.8 2.8 22 0 0 0 23				
5 1.2 1.2 1.2 1.2 6 1.2 1.2 1.2 1.2 7 0.1 0.1 0.1 0.1 8 0 0 0 0 9 2.6 2.6 2.6 1.5 10 1.5 1.5 1.5 1.5 11 2.6 2.6 2.6 1.5 12 0.5 0.5 0.5 1.5 13 3.9 3.9 3.9 3.9 14 3.9 3.9 3.9 3.9 3.9 15 0 <td>1</td> <td>13.0</td> <td>13.0</td> <td>13.0</td>	1	13.0	13.0	13.0
5 1.2 1.2 1.2 1.2 6 1.2 1.2 1.2 1.2 7 0.1 0.1 0.1 0.1 8 0 0 0 0 9 2.6 2.6 2.6 1.5 10 1.5 1.5 1.5 1.5 11 2.6 2.6 2.6 1.5 12 0.5 0.5 0.5 1.5 13 3.9 3.9 3.9 3.9 14 3.9 3.9 3.9 3.9 3.9 15 0 <td>2</td> <td>13.0</td> <td>13.0</td> <td>13.0</td>	2	13.0	13.0	13.0
5 1.2 1.2 1.2 1.2 6 1.2 1.2 1.2 1.2 7 0.1 0.1 0.1 0.1 8 0 0 0 0 9 2.6 2.6 2.6 1.5 10 1.5 1.5 1.5 1.5 11 2.6 2.6 2.6 1.5 12 0.5 0.5 0.5 1.5 13 3.9 3.9 3.9 3.9 14 3.9 3.9 3.9 3.9 3.9 15 0 <td>3</td> <td>13.5</td> <td>13.5</td> <td>13.5</td>	3	13.5	13.5	13.5
5 1.2 1.2 1.2 1.2 6 1.2 1.2 1.2 1.2 7 0.1 0.1 0.1 0.1 8 0 0 0 0 9 2.6 2.6 2.6 1.5 10 1.5 1.5 1.5 1.5 11 2.6 2.6 2.6 1.5 12 0.5 0.5 0.5 1.5 13 3.9 3.9 3.9 3.9 14 3.9 3.9 3.9 3.9 3.9 15 0 <td></td> <td>12</td> <td>12</td> <td>1.2</td>		12	12	1.2
6 1.2 1.2 1.2 7 0.1 0.1 0.1 8 0 0 0 9 2.6 2.6 2.6 10 1.5 1.5 1.5 11 2.6 2.6 2.6 12 0.5 0.5 0.5 13 3.9 3.9 3.9 14 3.9 3.9 3.9 15 0 0 0 16 0 0 0 17 18 13.5 13.5 13.5 19 2.8 2.8 2.8 20 0 0 0 21 2.8 2.8 2.8 22 0 0 0 23 0.2 0.2 0.2 24 1.8 0 0 25 1.8 0 0 26 13		1.2	12	12
8 0 0 0 9 2.6 2.6 2.6 10 1.5 1.5 1.5 11 2.6 2.6 2.6 12 0.5 0.5 0.5 13 3.9 3.9 3.9 14 3.9 3.9 3.9 15 0 0 0 16 0 0 0 17 18 13.5 13.5 13.5 19 2.8 2.8 2.8 20 0 0 0 21 2.8 2.8 2.8 20 0 0 0 21 2.8 2.8 2.8 22 0 0 0 23 0.2 0.2 0.2 24 1.8 0 0 25 1.8 0 0 26 13.5 </td <td></td> <td>1.2</td> <td>1.2</td> <td>1.2</td>		1.2	1.2	1.2
8 0 0 0 9 2.6 2.6 2.6 10 1.5 1.5 1.5 11 2.6 2.6 2.6 12 0.5 0.5 0.5 13 3.9 3.9 3.9 14 3.9 3.9 3.9 15 0 0 0 16 0 0 0 17 18 13.5 13.5 13.5 19 2.8 2.8 2.8 20 0 0 0 21 2.8 2.8 2.8 20 0 0 0 21 2.8 2.8 2.8 22 0 0 0 23 0.2 0.2 0.2 24 1.8 0 0 25 1.8 0 0 26 13.5 </td <td></td> <td>1.2</td> <td>1.2</td> <td>1.4</td>		1.2	1.2	1.4
9 2.6 2.6 2.6 10 1.5 1.5 1.5 11 2.6 2.6 2.6 12 0.5 0.5 0.5 13 3.9 3.9 3.9 14 3.9 3.9 3.9 15 0 0 0 16 0 0 0 17 18 13.5 13.5 13.5 19 2.8 2.8 2.8 20 0 0 0 21 2.8 2.8 2.8 22 0 0 0 23 0.2 0.2 0.2 24 1.8 0 0 25 1.8 0 0 26 13.5 13.5 13.5 27 IC2601 1 13.0 13.0 3		0.1	0.1	0.1
10 1.5 1.5 1.5 11 2.6 2.6 2.6 12 0.5 0.5 0.5 13 3.9 3.9 3.9 14 3.9 3.9 3.9 15 0 0 0 16 0 0 0 17 18 13.5 13.5 13.5 19 2.8 2.8 2.8 20 0 0 0 21 2.8 2.8 2.8 20 0 0 0 21 2.8 2.8 2.8 22 0 0 0 23 0.2 0.2 0.2 24 1.8 0 0 25 1.8 0 0 25 1.8 0 0 26 13.5 13.5 13.5 27 <td< td=""><td>8</td><td>0</td><td>0</td><td>0</td></td<>	8	0	0	0
10 1.5 1.5 1.5 11 2.6 2.6 2.6 12 0.5 0.5 0.5 13 3.9 3.9 3.9 14 3.9 3.9 3.9 15 0 0 0 16 0 0 0 17 18 13.5 13.5 13.5 19 2.8 2.8 2.8 20 0 0 0 21 2.8 2.8 2.8 20 0 0 0 21 2.8 2.8 2.8 22 0 0 0 23 0.2 0.2 0.2 24 1.8 0 0 25 1.8 0 0 26 13.5 13.5 13.5 27 IC2601	9	2.6	2.6	2.6
11 2.6 2.6 2.6 12 0.5 0.5 0.5 13 3.9 3.9 3.9 14 3.9 3.9 3.9 15 0 0 0 16 0 0 0 17 18 13.5 13.5 13.5 19 2.8 2.8 2.8 20 0 0 0 21 2.8 2.8 2.8 20 0 0 0 21 2.8 2.8 2.8 22 0 0 0 23 0.2 0.2 0.2 24 1.8 0 0 25 1.8 0 0 25 1.8 0 0 26 13.5 13.5 13.5 27 102601	10	1.5	1.5	1.5
12 0.5 0.5 13 3.9 3.9 14 3.9 3.9 15 0 0 16 0 0 17 18 13.5 13.5 19 2.8 2.8 2.8 20 0 0 0 21 2.8 2.8 2.8 20 0 0 0 21 2.8 2.8 2.8 22 0 0 0 23 0.2 0.2 0.2 24 1.8 0 0 25 1.8 0 0 26 13.5 13.5 13.5 27 IC2601 1 13.0 13.0 13.0 3 13.5 13.5 13.5 4 1.2 1.2	11			
13 3.9 3.9 3.9 14 3.9 3.9 3.9 15 0 0 0 16 0 0 0 17 18 13.5 13.5 13.5 19 2.8 2.8 2.8 20 0 0 0 21 2.8 2.8 2.8 22 0 0 0 23 0.2 0.2 0.2 24 1.8 0 0 25 1.8 0 0 26 13.5 13.5 13.5 27 IC2601 1 13.0 13.0 13.0 3 13.5 13.5 13.5 4 1.2 1.2 1.2 5 5.1 5.1 5.1 6 </td <td></td> <td></td> <td></td> <td>0.5</td>				0.5
15 0 0 0 16 0 0 0 17 18 13.5 13.5 13.5 19 2.8 2.8 2.8 20 0 0 0 21 2.8 2.8 2.8 22 0 0 0 23 0.2 0.2 0.2 24 1.8 0 0 25 1.8 0 0 26 13.5 13.5 13.5 27 IC2601 1 13.0 13.0 13.0 2 13.0 13.0 13.0 13.0 3 13.5 13.5 13.5 13.5 4 1.2 1.2 1.2 5 5.1 5.1 5.1 6 0.9 0.9 0.9 7 1.0 1.0	12	0.5	0.0	2.0
15 0 0 0 16 0 0 0 17 18 13.5 13.5 13.5 19 2.8 2.8 2.8 20 0 0 0 21 2.8 2.8 2.8 22 0 0 0 23 0.2 0.2 0.2 24 1.8 0 0 25 1.8 0 0 26 13.5 13.5 13.5 27 IC2601 1 13.0 13.0 13.0 2 13.0 13.0 13.0 13.0 3 13.5 13.5 13.5 13.5 4 1.2 1.2 1.2 5 5.1 5.1 5.1 6 0.9 0.9 0.9 7 1.0 1.0	13	3.9	3.9	3.9
15 0 0 0 16 0 0 0 17 18 13.5 13.5 13.5 19 2.8 2.8 2.8 20 0 0 0 21 2.8 2.8 2.8 22 0 0 0 23 0.2 0.2 0.2 24 1.8 0 0 25 1.8 0 0 26 13.5 13.5 13.5 27 IC2601 1 13.0 13.0 13.0 2 13.0 13.0 13.0 13.0 3 13.5 13.5 13.5 13.5 4 1.2 1.2 1.2 5 5.1 5.1 5.1 6 0.9 0.9 0.9 7 1.0 1.0	14	3.9	3.9	
16 0 0 17 18 13.5 13.5 13.5 19 2.8 2.8 2.8 20 0 0 0 21 2.8 2.8 2.8 22 0 0 0 23 0.2 0.2 0.2 24 1.8 0 0 25 1.8 0 0 26 13.5 13.5 13.5 27 IC2601 1 13.0 13.0 13.0 2 13.0 13.0 13.0 13.0 3 13.5 13.5 13.5 13.5 4 1.2 1.2 1.2 1.2 5 5.1 5.1 5.1 6 0.9 0.9 0.9 7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	15	0	0_	
17 18 13.5 13.5 13.5 19 2.8 2.8 2.8 20 0 0 0 21 2.8 2.8 2.8 22 0 0 0 23 0.2 0.2 0.2 24 1.8 0 0 25 1.8 0 0 26 13.5 13.5 13.5 27 IC2601 1 13.0 13.0 13.0 2 13.0 13.0 13.0 13.0 3 13.5 13.5 13.5 13.5 4 1.2 1.2 1.2 5 5.1 5.1 5.1 6 0.9 0.9 0.9 7 1.0 1.0 1.0 8 0.7 0.7 0.7 9 2.6 2.6	16	0	0	0
18 13.5 13.5 13.5 19 2.8 2.8 2.8 20 0 0 0 21 2.8 2.8 2.8 22 0 0 0 23 0.2 0.2 0.2 24 1.8 0 0 25 1.8 0 0 26 13.5 13.5 13.5 27 IC2601 1 13.0 13.0 13.0 2 13.0 13.0 13.0 13.0 3 13.5 13.5 13.5 13.5 4 1.2 1.2 1.2 1.2 5 5.1 5.1 5.1 6 0.9 0.9 0.9 7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 <t< td=""><td></td><td></td><td></td><td></td></t<>				
20 0 0 0 21 2.8 2.8 2.8 22 0 0 0 23 0.2 0.2 0.2 24 1.8 0 0 25 1.8 0 0 26 13.5 13.5 13.5 27 IC2601 1 13.0 13.0 13.0 3 13.5 13.5 13.5 4 1.2 1.2 1.2 5 5.1 5.1 5.1 6 0.9 0.9 0.9 7 1.0 1.0 1.0 8 0.7 0.7 0.7 9 2.6 2.6 2.6 10 1.5 1.5 1.5 11 0 0 0 12 3.9 3.9 3.9 13 </td <td></td> <td>13.5</td> <td>13.5</td> <td>135</td>		13.5	13.5	135
20 0 0 0 21 2.8 2.8 2.8 22 0 0 0 23 0.2 0.2 0.2 24 1.8 0 0 25 1.8 0 0 26 13.5 13.5 13.5 27 IC2601 1 13.0 13.0 13.0 3 13.5 13.5 13.5 4 1.2 1.2 1.2 5 5.1 5.1 5.1 6 0.9 0.9 0.9 7 1.0 1.0 1.0 8 0.7 0.7 0.7 9 2.6 2.6 2.6 10 1.5 1.5 1.5 11 0 0 0 12 3.9 3.9 3.9 13 </td <td>10</td> <td>10.0</td> <td>10.0</td> <td>2.0</td>	10	10.0	10.0	2.0
21 2.8 2.8 2.8 22 0 0 0 23 0.2 0.2 0.2 24 1.8 0 0 25 1.8 0 0 26 13.5 13.5 13.5 27 IC2601 1 13.0 13.0 13.0 2 13.0 13.0 13.0 13.0 3 13.5 13.5 13.5 13.5 4 1.2 1.2 1.2 1.2 5 5.1 5.1 5.1 6 0.9 0.9 0.9 7 1.0 <td>19</td> <td>2.8</td> <td>2.0</td> <td>2.0</td>	19	2.8	2.0	2.0
22 0 0 0 23 0.2 0.2 0.2 24 1.8 0 0 25 1.8 0 0 26 13.5 13.5 13.5 27 IC2601 1 13.0 13.0 13.0 2 13.0 13.0 13.0 13.0 3 13.5 13.5 13.5 13.5 4 1.2 1.2 1.2 1.2 5 5.1 5.1 5.1 5.1 6 0.9 0.9 0.9 7 1.0 1.	20	0		
23 0.2 0.2 0.2 24 1.8 0 0 25 1.8 0 0 26 13.5 13.5 13.5 27 IC2601 1 13.0 13.0 13.0 2 13.0 13.0 13.0 3 3 13.5 13.5 13.5 13.5 4 1.2 1.2 1.2 1.2 5 5.1 5.1 5.1 6 0.9 0.9 0.9 7 1.0 <t< td=""><td>21</td><td>2.8</td><td>2.8</td><td></td></t<>	21	2.8	2.8	
23 0.2 0.2 0.2 24 1.8 0 0 25 1.8 0 0 26 13.5 13.5 13.5 27 IC2601 1 13.0 13.0 13.0 3 13.5 13.5 13.5 4 1.2 1.2 1.2 5 5.1 5.1 5.1 6 0.9 0.9 0.9 7 1.0 1.0 1.0 8 0.7 0.7 0.7 9 2.6 2.6 2.6 10 1.5 1.5 1.5 11 0 0 0 12 3.9 3.9 3.9 13 3.9 3.9 3.9 14 3.9 3.9 3.9 15 0.1 0.1 0.1 16	22	0	0	0
24 1.8 0 0 25 1.8 0 0 26 13.5 13.5 13.5 27 IC2601 1 13.0 13.0 13.0 2 13.0 13.0 13.0 3 13.5 13.5 13.5 4 1.2 1.2 1.2 5 5.1 5.1 5.1 6 0.9 0.9 0.9 7 1.0 1.0 1.0 8 0.7 0.7 0.7 9 2.6 2.6 2.6 10 1.5 1.5 1.5 11 0 0 0 12 3.9 3.9 3.9 13 3.9 3.9 3.9 14 3.9 3.9 3.9 15 0.1 0.1 0.1 16 13.2				0.2
25 1.8 0 0 26 13.5 13.5 13.5 27 IC2601 1 13.0 13.0 13.0 2 13.0 13.0 13.0 13.0 3 13.5 13.5 13.5 13.5 4 1.2 1.2 1.2 1.2 5 5.1 5.1 5.1 6 0.9 0.9 0.9 7 1.0 <td></td> <td>1.0</td> <td></td> <td></td>		1.0		
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27 IC2601 1 13.0 13.0 13.0 13.0 2 13.0 13.0 13.0 13.0 3 13.5 13.5 13.5 13.5 4 1.2 1.2 1.2 1.2 5 5.1 5.1 5.1 5.1 6 0.9 0.9 0.9 0.9 7 1.0 1.0 1.0 1.0 8 0.7 0.7 0.7 9 2.6 2.6 2.6 10 1.5 1.1 1.5 1.5 1.5 1.1 1.5 1.5 1.1 1.5 1.5 1.1 1.5 1.5 1.1 1.5 1.5 1.1		1.8	10.5	
C2601		13.5	13.5	13.5
1 13.0 13.0 13.0 2 13.0 13.0 13.0 3 13.5 13.5 13.5 4 1.2 1.2 1.2 5 5.1 5.1 5.1 6 0.9 0.9 0.9 7 1.0 1.0 1.0 8 0.7 0.7 0.7 9 2.6 2.6 2.6 10 1.5 1.5 1.5 11 0 0 0 12 3.9 3.9 3.9 13 3.9 3.9 3.9 14 3.9 3.9 3.9 15 0.1 0.1 0.1 16 13.2 13.2 13.2 IC6001 1 5.2 5.2 5.2 2 0 0 0 0 3 0 0 0 0 4 -	27			
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3 13.5 13.5 13.5 4 1.2 1.2 1.2 5 5.1 5.1 5.1 6 0.9 0.9 0.9 7 1.0 1.0 1.0 8 0.7 0.7 0.7 9 2.6 2.6 2.6 10 1.5 1.5 1.5 11 0 0 0 12 3.9 3.9 3.9 13 3.9 3.9 3.9 14 3.9 3.9 3.9 15 0.1 0.1 0.1 16 13.2 13.2 13.2 IC6001 1 5.2 5.2 5.2 2 0 0 0 0 3 0 0 0 0 4 5 5.0 5.0 5.0 6 0 0		13.0	13.0	
4 1.2 1.2 1.2 5 5.1 5.1 5.1 6 0.9 0.9 0.9 7 1.0 1.0 1.0 8 0.7 0.7 0.7 9 2.6 2.6 2.6 10 1.5 1.5 1.5 11 0 0 0 12 3.9 3.9 3.9 13 3.9 3.9 3.9 14 3.9 3.9 3.9 15 0.1 0.1 0.1 16 13.2 13.2 13.2 IC6001 0 0 0 3 0 0 0 4 5 5.0 5.0 5.0 6 0 0 0 7 0 0 0 9 5.0 5.0 5.0 10 <t< td=""><td></td><td>10.0</td><td>12.5</td><td></td></t<>		10.0	12.5	
5 5.1 5.1 5.1 6 0.9 0.9 0.9 7 1.0 1.0 1.0 8 0.7 0.7 0.7 9 2.6 2.6 2.6 10 1.5 1.5 1.5 11 0 0 0 12 3.9 3.9 3.9 13 3.9 3.9 3.9 14 3.9 3.9 3.9 15 0.1 0.1 0.1 16 13.2 13.2 13.2 IC6001 1 5.2 5.2 5.2 2 0 0 0 0 3 0 0 0 0 4 5 5.0 5.0 5.0 6 0 0 0 7 0 0 0 9 5.0 5.0 5	3	10.0	10.0	10.0
6 0.9 0.9 0.9 7 1.0 1.0 1.0 8 0.7 0.7 0.7 9 2.6 2.6 2.6 10 1.5 1.5 1.5 11 0 0 0 12 3.9 3.9 3.9 13 3.9 3.9 3.9 14 3.9 3.9 3.9 15 0.1 0.1 0.1 16 13.2 13.2 13.2 IC6001 1 5.2 5.2 5.2 2 0 0 0 0 3 0 0 0 0 4 5 5.0 5.0 5.0 6 0 0 0 7 0 0 0 9 5.0 5.0 5.0 10 0.5 5.0		1.2		1.2
7 1.0 1.0 1.0 1.0 8 0.7 0.7 0.7 9 2.6 2.6 2.6 2.6 10 1.5 1.5 1.5 1.5 11 0 0 0 0 12 3.9 3.9 3.9 3.9 13 3.9 3.9 3.9 3.9 15 0.1 0.1 0.1 16 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13.2				5.1
7 1.0 1.0 1.0 1.0 8 0.7 0.7 0.7 9 2.6 2.6 2.6 2.6 10 1.5 1.5 1.5 1.5 11 0 0 0 0 12 3.9 3.9 3.9 3.9 13 3.9 3.9 3.9 3.9 14 3.9 3.9 3.9 3.9 15 0.1 0.1 0.1 16 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13.2	6	0.9	0.9	0.9
8 0.7 0.7 0.7 9 2.6 2.6 2.6 10 1.5 1.5 1.5 11 0 0 0 12 3.9 3.9 3.9 13 3.9 3.9 3.9 15 0.1 0.1 0.1 16 13.2 13.2 13.2 IC6001 1 5.2 5.2 5.2 2 0 0 0 0 3 0 0 0 0 4 5 5.0 5.0 5.0 5.0 6 0 0 0 0 0 7 0 0 0 0 0 9 5.0 5.0 5.0 5.0 10 0.5 5.0 5.0 5.0 11 0 0 0 0				1.0
9 2.6 2.6 2.6 10 1.5 1.5 1.5 11 0 0 0 12 3.9 3.9 3.9 13 3.9 3.9 3.9 15 0.1 0.1 0.1 16 13.2 13.2 13.2 IC6001 1 5.2 5.2 5.2 2 0 0 0 0 3 0 0 0 0 4 5 5.0 5.0 5.0 6 0 0 0 7 0 0 0 8 0 0 0 9 5.0 5.0 5.0 10 0.5 5.0 5.0 11 0 0 0 12 5.2 5.2 5.2				
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12 3.9 3.9 3.9 13 3.9 3.9 3.9 14 3.9 3.9 3.9 15 0.1 0.1 0.1 16 13.2 13.2 13.2 IC6001 1 5.2 5.2 5.2 2 0 0 0 0 3 0 0 0 0 4 5 5.0 5.0 5.0 5.0 6 0 0 0 0 7 0 0 0 0 9 5.0 5.0 5.0 10 0.5 5.0 5.0 11 0 0 0 12 5.2 5.2 5.2		_	_	
13 3.9 3.9 3.9 14 3.9 3.9 3.9 15 0.1 0.1 0.1 16 13.2 13.2 13.2 IC6001 1 5.2 5.2 5.2 2 0 0 0 0 3 0 0 0 0 4 5.0 5 5.0 5.0 5.0 5.0 6 0 0 0 0 7 0 0 0 0 9 5.0 5.0 5.0 10 0.5 5.0 5.0 11 0 0 0 12 5.2 5.2 5.2				
13 3.9 3.9 3.9 14 3.9 3.9 3.9 15 0.1 0.1 0.1 16 13.2 13.2 13.2 IC6001 1 5.2 5.2 5.2 2 0 0 0 0 3 0 0 0 0 4 5.0 5 5.0 5.0 5.0 5.0 6 0 0 0 0 7 0 0 0 0 9 5.0 5.0 5.0 10 0.5 5.0 5.0 11 0 0 0 12 5.2 5.2 5.2	12	3.9		
14 3.9 3.9 3.9 15 0.1 0.1 0.1 16 13.2 13.2 13.2 IC6001 1 5.2 5.2 5.2 2 0 0 0 0 3 0 0 0 0 4 5.0 5 5.0 5.0 5.0 5.0 6 0 0 0 0 7 0 0 0 0 8 0 0 0 0 9 5.0 5.0 5.0 5.0 10 0.5 5.0 5.0 5.0 11 0 0 0 0 12 5.2 5.2 5.2 5.2	13	3.9	3.9	3.9
15	14	3.9	3.9	3.9
16 13.2 13.2 13.2 IC6001 1 5.2 5.2 5.2 2 0 0 0 3 0 0 0 4 5 5.0 5.0 5.0 6 0 0 0 7 0 0 0 8 0 0 0 9 5.0 5.0 5.0 10 0.5 5.0 5.0 11 0 0 0 12 5.2 5.2 5.2	15	0.0	0.1	
C6001 1 5.2 5.2 5.2 2 0 0 0 0 0 0 0 0				
1 5.2 5.2 5.2 2 0 0 0 3 0 0 0 4 5 5.0 5.0 5.0 6 0 0 0 7 0 0 0 8 0 0 0 9 5.0 5.0 5.0 10 0.5 5.0 5.0 11 0 0 0 12 5.2 5.2 5.2			10.2	10.4
2 0 0 0 3 0 0 0 4 5 5.0 5.0 5.0 6 0 0 0 7 0 0 0 8 0 0 0 9 5.0 5.0 5.0 10 0.5 5.0 5.0 11 0 0 0 12 5.2 5.2 5.2	10,600	1		
2 0 0 0 3 0 0 0 4 5 5.0 5.0 5.0 6 0 0 0 7 0 0 0 8 0 0 0 9 5.0 5.0 5.0 10 0.5 5.0 5.0 11 0 0 0 12 5.2 5.2 5.2	1		2 5.2	5.2
7 0 0 0 8 0 0 0 9 5.0 5.0 5.0 10 0.5 5.0 5.0 11 0 0 0 12 5.2 5.2 5.2	2	0	0	0
7 0 0 0 8 0 0 0 9 5.0 5.0 5.0 10 0.5 5.0 5.0 11 0 0 0 12 5.2 5.2 5.2	3	0	. 0	0
7 0 0 0 8 0 0 0 9 5.0 5.0 5.0 10 0.5 5.0 5.0 11 0 0 0 12 5.2 5.2 5.2	4			
7 0 0 0 8 0 0 0 9 5.0 5.0 5.0 10 0.5 5.0 5.0 11 0 0 0 12 5.2 5.2 5.2	5	5.0	5.0	5.0
7 0 0 0 8 0 0 0 9 5.0 5.0 5.0 10 0.5 5.0 5.0 11 0 0 0 12 5.2 5.2 5.2	- 5			
8 0 0 0 9 5.0 5.0 5.0 10 0.5 5.0 5.0 11 0 0 0 12 5.2 5.2 5.2	6			
9 5.0 5.0 5.0 10 0.5 5.0 5.0 11 0 0 0 12 5.2 5.2 5.2				
9 5.0 5.0 5.0 10 0.5 5.0 5.0 11 0 0 0 12 5.2 5.2 5.2	8	0	0	
10 0.5 5.0 5.0 11 0 0 0 12 5.2 5.2 5.2	9		5.0	5.0
11 0 0 0 12 5.2 5.2 5.2				
12 5.2 5.2 5.2				
12 5.2 5.2 5.2 13 0 0 0	11		2 50	F 2
13 0 0 0	12			
	13	1 0	0	U

\MODE PIN NO.\	STOP	FF	REW
14	4.9	4.9	4.9
15			₹#-
16	20.5	0.5	0.5 5.2 5.2
17	5.2	5.2	5.2
18	5.2	5.2	5.2
19			
20	4.9	4.9	4.9
21	2.5	0	0
22	4.9	2.2	2.2
23	5.0	2.0	2.0
24	0	0	0
25	0	5.0	5.0
26	2.5	2.5	2.5
27	0	0	0
28	0	0	0
29	4.7	4.7	4.7
30	0	0	0
31	0	0	0
32	U		
33	5.0	2.0	
34	4.5	2.0	2.0
	4.5	2.0	2.0
35	5.1	5.1	5.1
36			
37	2.5	2.5	2.5
38	2.5	2.5	2.5
39	0	0	00
40			
41			
42	0	0	0
43			***
44			
45			
46	2.0	1.0	1.0
47	1.9	1.9	1.9
48	0	0	0
49	1.9	1.9	1.9
50	2.6	2.6	2.6
51	5.1	5.1	5.1
52	2.5	2.5	2,5
53	2.6	2.6	2.6
54	5.2	5.2	5.2
55	5.2	5.2	5.2
56			
57	•••		4
58	4.9	4.9	4.9
59	5.0	5.0	5.0
60	1.9	1.9	1.9
61	0	0	0
62	0.4	0.4	0.4
63	5.0	5.0	5.0
64	0	0	0
65	1.0	1.0	1.0
66	0	0	0
67	2.5	2.5	2.5
68	2.5	2.5	2.5
69	2.5	2.5	2.5
70		2.5	2.5
71	2.5	0	0
11			

100		k 33	
MODE	STOP	FF	REW
PIN NO			
73	5.0	5.0	5.0
74	2.5	2.5	2.5
	2.5		2.5
75	2.5	2.1	2.1
76	2.5	2.5	2.5
77	2.3	1.9	1.9
78	3.5	3.5	3.5
79	5.0	5.0	5.0
80		4.7	4.7
	4.7		
81	5.4	5.0	5.0
82	0	5.0	5.0
83	5.0	5.0	5.0
84	3.8	3.8	3.8
85	5.2	5.2	5.2
86	4.8	4.8	4.8
87	5.2	5.2	5.2
88	1.7	1.8	1.8
89	5.2	5.2	5.2 5.2
90	5.2	5.2 5.2	52
91	0	0	0.2
92	0	0	0
93	4.8	4.7	4.7
94	1.7	1.9	1.9
95	0	0	0
96	0	5.2	5.2
97	5.2	0	0
.98	2.5	2.5	2.5
99	5.0	5.0	5.0
100	0.2	0.2	0.2
IC6002			,
1	1.2	1.2	1.2
2	0	0	0
3	1.2	1.2	1.2
4			
IC6003			
1	2.4	2.4	2.4
2	1.2	1.2	1.2
3	0	0	0
4			
· · · · · · · · · · · · · · · · · · ·			and the control of the control
Q6001			
Ε	0	0	0
Ċ	0	5.0	5.0
В	0	0	0_
Q6002			W. 1
Ε	12.5	12.1	12.1
C	0.5	1.0	1.0
В	12.1	12.1	12.1
Q6003			an in the last term and
G0000	0	_	
E	0	0	0
U	12.1	12.1	12.1
В	0	0	0
Q6005			
Ε	5.1	5.1	5.1
C			
	5.1	5.1	5.1
В	4.4	4.4	4.4
Q6006			
Ε	0	0	0
С	0	0	0
В	0.8	0.8	0.8
U.	0.0	0.0	0.0

MODE	STOP	FF	REW
PIN NO.			
Q6009			V. 7 . 1 . 10
Е	0	0	0
Ċ	5.1	5.1	0 5.1
0	3,1	3 .1	0.1
В			77
Q6010			
E	0	0	0
C	5.1	5.1	5.1
В		Same	
Q6011		bern mir annane.	
E	2.5	2.5	2.5
	2.0	2,5	2.0
C	0	0	0
В	0	0	0
Q6012			
E	0	0	. 0
C	0	0	0
В	0.5	1.0	1.0
D	0.5	1.0	1.0
TP6001			
TP6002	0.1	5.2	5.2
TP6003	3.8	3.8	3.8
TP6004	5.1	5.1	5.1
	0.1		0,1 È 4
TP6005		5.1	5.1
TP6007	0	0	0
TP6008		0	0
TP6009	5.2	5.2	5.2
TP6013	2.5	2.5	2.5
TP6016		3.5	3.5
TP0010			
TP6017		0	0
TP6018		5.2	5.2
TP6019	0	0	0
TP6201	2.6	2.2	2.2
TP6202		2.4	2.4
		2.5	
TP6203			2.5
TP6204	1.0	1.0	1.0
TP6205	2.6	2.6	2.6
TP6206	2.5	2.5	2.5
TP6207	2.5	2.5	2.5
TP6208		2.6	2.6
TP6209		0	0
126210	2.3	1.9	1.9
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	2000 COCKOCO		and the same and the
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			Company Comments
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2.5

CIRCUIT BOARD LAYOUT MAIN (POWER SUPPLY/SIGNAL PROCESS/AUDIO/Hi-Fi AUDIO/SYSTEM CONTROL/SERVO/OPERATION) C.B.A. VEPS6040GA(A,B) /VEPS6040GB(C) /VEPS6040HA(E) /VEPS6040HF(F)

NOT

4-1

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCEMATIC SECTION.

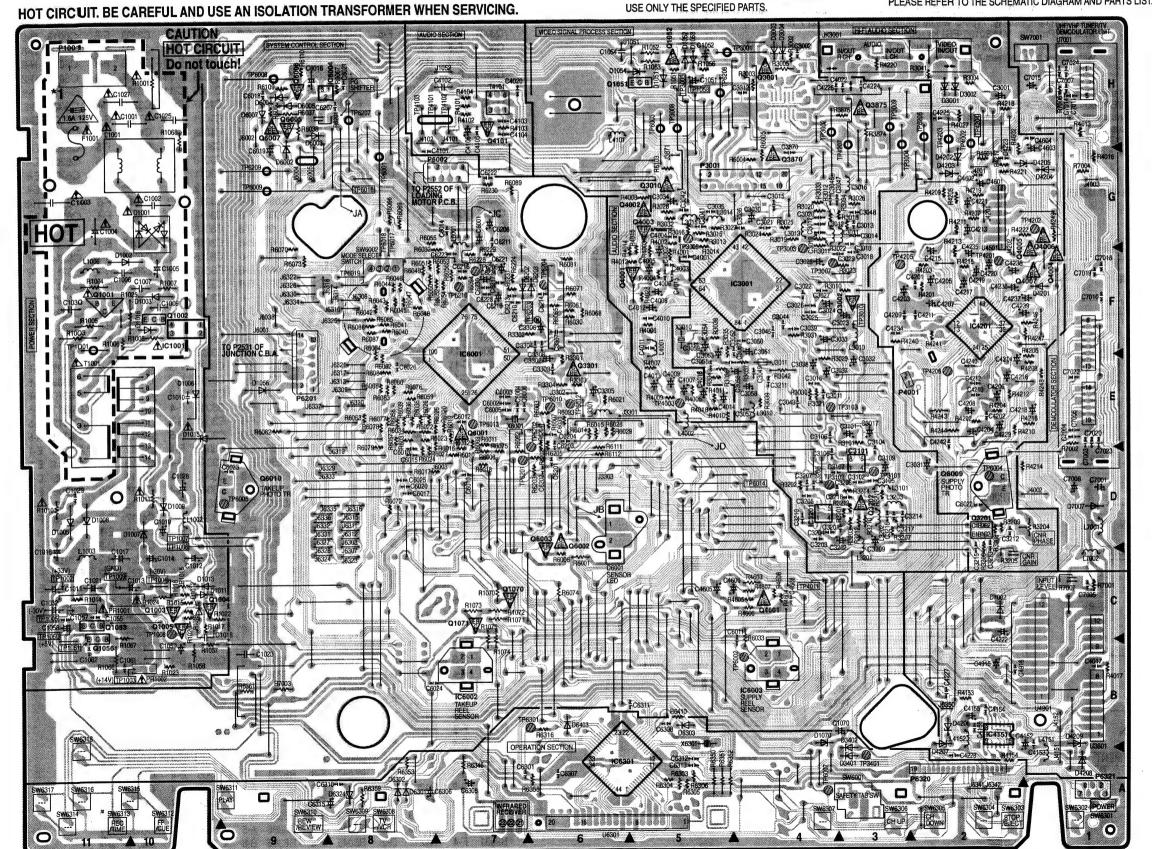
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.

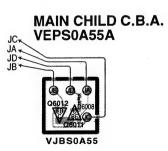
NOTE:

CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS. FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING, PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

COMPARISON CHART OF MODELS & MARKS

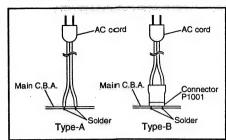
	27.1
MODEL	MARK
PV-8400	Α
PV-8400-K	В
PV-8401	Ç
VHQ840	D
PV-8450	E
PV-8450-K	F
VHQ860	G
Not Used	Z





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*1 AC cord replacement note



1) PV-8400-K, PV-8450, PV-8450-K

AC cord is connected to Connector P1001 for products using Type-B

2) PV-8400, PV-8401

Either Type-A or B is used as a AC cord for this model. However, for parts standardization and interchangeability, Type-B will be supplied with Connecter P1001 as a kit (Part No.: VJAS0195-FS) for replacement.

When replacing AC cord on products using Type-A, connect Connector P1001 to Main C.B.A. with solder and connect AC cord to Connector P1001.

Main C.B.A. replacement note for models PV-8400 and PV-8401:

VEPS6040GA or VEPS6040GF for PV-8400, VEPS6040GB or VEPS6040GG for PV-8401

are used as their Main C.B.A. However, for parts standardization, only VEPS6040GA for PV-8400 and VEPS6040GB for PV-8401 are supplied as a replacement.

Please note that VEPS6040GA and VEPS6040GF, VEPS6040GB and VEPS6040GG are interchangeable. Only interchangeable part is supplied as a replacement.

NOTE

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCEMATIC SECTION.

COMPONENT PARTS LOCATION GUIDE

MAIN C.B.A. (A, B, C, E, F)

MA	IN
TRANS	
Q1001	F-11
Q1002 Q1003	F-10 C-10
Q1003 Q1004	C-10 C-10
Q1005	C-10
Q1051	H-6
Q1052	H-5
Q1053	C-11
Q1056	B-11
Q1070	C-7 C-7
Q1071 Q3001	H-4
Q3001 Q3002	F-3
Q3010	G-5
Q3201	D-2
Q3202	D-3
Q3301	E-6
Q3870	G-4
Q3875 Q4001	H-3 F-6
Q4001 Q4002	G-6
Q4002	G-5
Q4004	F-1
Q4005	F-2
Q4006	G-1
Q4007	F-2
Q4101	H-7
Q4601	C-4 E-7
Q6001 Q6002	D-6
Q6002 Q6003	D-6
Q6005	H-9
Q6006	H-9
Q6007	H-9
Q6009	D-2
Q6010	D-9

,,, ,, ,,, ,,, ,,,,,,,,,,,,,,,,,,,,,,		
MAIN		
5		
F-10		
F-4		
D-3		
D-4		
B-2		
F-2		
F-7		
B-7		
B-4		
H-8		
A -6		

MAI	N
CONNE	CTOR
P1001	H-11
P3001	G-5
P4001	E-3
P6002	G-8
P6201	E -9
P6320	A-2
P6321	A-1

MAIN		
ADJUS'	TMENT	
R3204	D-1	
R3205	C-2	
R6201	H-8	

MAIN		
TEST	POINT	
TP1001	F-11	
TP1002	C-11	
TP1003	B-11	
TP1004	C-10	
TP1005	C-11	
TP1006	D-10	
TP1007	D-10	
TP1008	C-10	
TP1009	C-11	
TP1050	C-11	
TP1051	B-11	
TP1058	H-5	
TP3001	H-4	
TP3002	H-4	

TP3003

TP3004

TP3005

TP3006

TP3007

TP3008

G-4

G-3

H-5

G-5

F-3

H-5

	11 0000	11-5
	TP3009	H-3
	TP3010	F-3
	TP3101	D-3
	TP3102	D-4
	TP3103	E-3
	TP3401	A-3
	TP4002	H-2
	TP4003	E-5
	TP4011	C-4
	TP4101	H-8
	TP4102	H-7
	TP4103	H-8
-	TP4201	F-2
	TP4202	G-1
	TP4203	H-2
	TP4204	H-2

TEST POINT		
TP4205	F-3	
TP4206	E-2	
TP4207	H-3	
TP6001	G-8	
TP6002	B-4	
TP6003	H-5	
TP6004	D-2	ŀ
TP6005	D-9	
TP6007	A-4	
TP6008	H-9	
TP6009	G-9	
TP6010	E-6	
TP6012	E-6	
TP6013	E-7	
TP6014	D-4	
TP6016	G-8	
TP6017	G-8	
TP6018	G-8	
TP6019	F-8	
TP6201	D-7	
TP6202	E-6	
TP6203	F-6	
TP6204	F-6	
TP6205	H-2	
TP6206	F-7	
TP6207	H-8	
TP6208	H-5	
TP6209	G-9	
TP6210	F-7	
TP6301	B-7	

MAIN

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
PV-8400	Α
PV-8400-K	В
PV-8401	С
VHQ840	D
PV-8450	E
PV-8450-K	F
VHQ860	G
Not Used	Z

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LEADLESS COMPONENT PARTS LOCATION GUIDE
MAIN C.B.A. (A, B, C, E, F)
Q1003 C-10 R3032 G-5
                     R4212 E-2
                                R6046 F-8
                                                      C3213 C-2
                                                                 C6011 C-4
                     R4213 F-2
                                            R6358 A-6
Q1004 C-10 R3033 G-4
                                R6047 F-8
                                                       C3214 D-3
                                                                 C6012 E-7
Q1005 C-10 B3034 G-3
                     R4214 D-1
                                 R6048 F-8
                                            R6361 B-9
                                                       C3215 C-2
                                                                  C6013 E-8
Q1052 H-5
          R3035
                 F-5
                      R4215 F-2
                                 R6049 F-8
                                            R6410 B-5
                                                       C3216 D-3
                                                                  C6014 G-7
                      R4216 E-1
                                R6050 F-8
                                            R7001 C-1
                                                       C3217 D-3
Q1070
      C-7
          R3036
                 E-5
                                                                 C6015 D-8
                                R6051 F-8
                                            R7002 E-1
           R3037
                      R4217 G-2
                                                       C3218 D-3
                                                                 C6017 D-8
Q1071
      C-7
                 E-4
Q3001
      H-4
          R3038
                 F-5
                      R4218 H-2
                                 R6052 F-7
                                            R7004 G-1
                                                       C3303 E-6
                                                                 C6018 H-9
Q3002
      F-3
          R3039
                 E-4
                      R4219
                            G-2
                                 R6053 E-7
                                           R7006 H-1
                                                       C3304 F-6
                                                                  C6020 D-8
          R3040 E-5
                      R4220
                                 R6054 F-7
                                                       C3306 F-6
                                                                 C6021 H-8
Q3010
      G-5
                            H-3
                                           C1010 E-10
Q3201
      D-2 R3041
                 H-2
                      R4221
                            G-2
                                 R6055 G-8
                                           C1029 D-11
                                                       C3307 F-6
                                                                 C6022 D-2
Q3202
          R3101
                      R4222
                                 R6056
                                       F-7
                                            C1055 C-11
                                                       C3308
                                                                  C6023 D-9
      D-3
                 E-3
                            G-1
                                                            F-6
                                 R6057 E-8
                                                                 C6024 B-8
Q3301
      E-6 R3201
                 D-3
                      R4240
                            F-3
                                            C1057 C-11
                                                       C3312 H-4
                      R4241
Q3870
      G-4 R3202 D-4
                           F-2
                                 R6058 E-8
                                            C1061 B-11
                                                       C3870 G-4
                                                                 C6025 D-8
                      R4244 E-2
Q3875 H-3
          R3203 D-3
                                 R6059 E-8
                                            C1062 B-11
                                                       C4001 F-5
                                                                 C6031 E-6
Q4001 F-5
          R3206
                 C-2
                      R4246
                            F-1
                                 R6060 H-9
                                            C3002 H-4
                                                       C4003 F-5
                                                                 C6201 D-6
          R3207 D-3
                      R4247 F-1
                                 R6061 F-6
                                            C3010 G-3
                                                       C4004 G-5
                                                                 C6202 D-6
Q4002 G-5
Q4003 G-5
           R3208 D-2
                      R4248 E-1
                                 R6062 E-8
                                            C3011 E-4
                                                       C4005 F-5
                                                                  C6203 E-6
Q4004 F-1
           R3209
                 D-2
                      R4249 G-1
                                 R6063
                                       E-8
                                            C3012 G-4
                                                       C4006 F-5
                                                                  C6204 E-6
                      R4601
Q4005 F-1
          R3210 D-3
                            . G-2
                                 R6064 F-8
                                            C3013 G-3
                                                       C4010 F-5
                                                                  C6207 H-8
                                                                 C6210 F-7
Q4006 G-1
          R3211 D-3
                      R4602 H-2
                                 R6065 F-6
                                            C3014 G-3
                                                       C4011 F-5
Q4007 F-1
          R3212 D-3
                      R4604 C-4
                                 R6066 G-8
                                            C3015 G-4
                                                       C4015 F-5
Q4101 H-7
          R3213 D-3
                      R4605 C-4
                                 R6067 H-8
                                            C3016 E-4
                                                       C4017 B-1
                                                                  C6213 F-7
Q4601
      C-4
          R3214 D-3
                      R4606 C-4
                                 R6068 F-6
                                            C3018 F-3
                                                       C4020 H-7
                                                                 C6214 F-6
Q6001 E-7
           R3301 E-6
                      R4607 C-4
                                 R6069 G-8
                                            C3019 G-4
                                                       C4022 H-3
                                                                 C6216 F-7
Q6002 D-6
          R3302 F-6
                      R4608 C-4
                                                       C4101 H-8
                                 R6070 G-9
                                            C3020
                                                  G-4
                                                                 C6217 F-7
Q6003 D-6 R3303 E-6
                      R6003 E-6
                                 R6071 F-6
                                            C3021
                                                  G-4
                                                       C4103 H-7
                                                                 C6222 G-7
          R3304 E-6
                      R6004 G-4
                                 R6072 D-8
                                            C3022
Q6005 H-9
                                                       C4104 H-7
Q6006 H-9
          R3875 H-3
                      R6005 G-4
                                 R6073 F-9
                                            C3025
                                                       C4105 H-7
                                                                  C6228 F-7
                                                 F-4
                                                                  C6230 F-7
Q6007 H-9 R4001 F-5
                      R6006 C-6
                                 R6075 E-7
                                            C3026 F-4
                                                       C4153 A-2
R1006 F-11 R4002 G-5
                      R6007 E-6
                                 R6076 E-8
                                            C3027
                                                       C4154 B-2
                                                                  C6301 A-7
                                                  F-4
R1014 C-11 R4003 G-5
                                 R6077 E-8
                                                       C4156 B-2
                      R6008
                            D-7
                                            C3029
                                                  F-3
                                                                  C6307 A-6
R1015 C-10 R4004 F-5
                      R6009 E-7
                                 R6078 E-8
                                            C3035 G-1
                                                       C4201 F-2
                                                                  C6308 B-5
R1016 C-10 R4005 E-5
                      R6010 D-7
                                 R6079 E-8
                                            C3036
                                                 G-4
                                                       C4202 E-2
R1017 C-10 R4006 F-5
                                 R6080 E-8
                                            C3039 F-4
                                                       C4209 F-3
                                                                  C6311 B-5
                      R6011 E-7
R1018 C-10 R4007 E-5
                      R6012 E-7
                                 B6081 F-6
                                            C3041 G-5
                                                       C4210 E-2
                                                                 C6312 A-5
R1019 C-10 R4008 G-5
                      R6014 E-6
                                 R6082 E-9
                                            C3042 G-5
                                                       C4211 F-2
                                                                  C6313 A-5
R1020 C-10 R4009 E-5
                      R6015 E-6
                                 R6083 E-8
                                            C3043 E-4
                                                       C4212 E-2
                                                                 C7003 E-1
R1022 C-10 R4010 E-5
                      R6016 E-7
                                 R6084 E-8
                                            C3044 F-4
                                                       C4213 G-2
                                                                 C7004 E-1
R1023 B-10 R4011 E-5
                      R6017 D-8
                                 R6085
                                       F-8
                                            C3045 F-4
                                                       C4214 E-2
R1051 H-5 R4012 F-5
                      R6018 D-7
                                 R6086 F-8
                                            C3046 G-4
                                                       C4215 F-2
                                                                  C7006 E-1
R1056 H-5
          R4013 H-1
                      R6019 E-7
                                 R6087 F-8
                                            C3047
                                                 G-3
                                                       C4216 E-2
                                                                 C7007 H-1
R3002 H-4
           R4014 G-5
                      R6020
                                 R6088 E-8
                                            C3048
                                                       C4217 F-2
                            E-7
                                                  G-3
                                                                  C7010 F-1
R3003 H-4
                                 R6089 G-7
                                            C3049
                                                       C4218 E-1
          R4015 G-5
                      R6021
                            E-6
                                                  E-4
                                                                 C7011 H-1
R3004 H-2 R4016 G-1
                      R6022 E-8
                                R6092 E-7
                                            C3050
                                                 F-4
                                                       C4223 G-2
                                                                 C7014 H-1
          R4017 B-1
                                            C3052
R3010 F-3
                      R6023 E-8
                                 R6093 E-6
                                                       C4224 H-3
                                 R6094 F-7
                                            C3055 E-5
                                                       C4225 H-2
R3011 G-4
          R4018 E-5
                      R6024 D-8
                                                                 C7019 F-1
R3012 G-4 R4027 H-2
                      R6025 E-7
                                 R6103 G-5
                                           C3057 E-4
                                                       C4226 H-3
                                                                 C7020 E-1
                                R6109 H-8
                                            C3059 F-5
                                                       C4227 B-2
                                                                 C7022 E-1
R3013 G-5 R4028
                 F-5
                     R6026 E-8
                                            C3062 E-5
                                                       C4228
                                                                 C7023 E-1
R3014 G-5
          R4101 H-7
                      R6026
                            E-8
                                 R6110 H-8
                                                            A-2
R3015 G-5 R4102 H-7
                      R6027 D-7
                                 R6111 E-6
                                            C3102 D-3
                                                       C4234 F-3
                                                                 C7024 H-1
R3016 G-5
          R4103
                      R6028
                                 R6112 D-6
                                            C3104
                                                       C4240 E-2
                 H-7
                            E-6
                                                 D-3
          R4104 H-7
                      R6029 E-6
                                           C3105 D-3
                                                       C4242 E-2
R3018 G-3
                                 R6202 D-6
R3019 G-4
          R4153 B-2
                      R6030 F-6
                                 R6203 D-6
                                           C3106 E-4
                                                       C4601 G-2
R3020
      G-4
          R4154
                 A-2
                      R6031
                            E-8
                                 R6204
                                       E-6
                                            C3107
                                                       C4602 G-2
R3021 E-4
          R4201
                 F-2
                      R6032 G-8
                                R6205 D-6
                                           C3108
                                                  D-4
                                                       C4603 H-1
R3022 G-4
          R4202
                      R6034
                           E-8
                                 R6224 F-7
                                           C3201 D-3
                                                       C4604 H-1
                 E-2
      F-3
          R4203
                                 R6228
                                       F-7
                                            C3203 D-4
R3023
                 F-2
                      R6035 E-8
                                                       C4606 C-5
R3024
     G-4
          R4204
                E-2
                      R6036 E-8
                                 R6229 G-7
                                           C3204 D-4
                                                       C4608 C-4
R3025
      G-4
          R4205
                 G-2
                      R6039
                            E-8
                                 R6230 G-7
                                            C3205 D-4
                                                       C4916 B-2
R3026
      G-3
          R4206
                 E-1
                      R6040
                                 R6231 F-7
                                            C3206 D-4
                                                       C6002 E-7
R3027
     G-5
          R4207
                      R6041 F-8
                                 R6303 A-5
                                            C3207 D-4
                                                       C6003 E-7
                 G-2
R3028
      G-5
          R4208 E-1
                     R6042 F-8
                                 R6304 A-5
                                           C3208 D-4
                                                       C6004 E-7
R3029
      E-4
          R4209
                 G-2
                      R6043 F-8
                                 R6305 A-5
                                           C3210 D-4
                                                       C6005 E-7
R3030
     E-4 R4210 E-2
                     R6044 F-8 R6306 A-5
                                           C3211 E-4
                                                      C6006 E-7
```

R6316 B-6 C3212 D-2 C6010 D-7

F-4 R4211 G-2 R6045 F-8

R3031

MAIN (POWER SUPPLY/SIGNAL PROCESS/AUDIO/Hi-Fi AUDIO/SYSTEM CONTROL/SERVO/OPERATION) C.B.A. VEPS6043GA(D) /VEPS6043HA(G)

NOTE

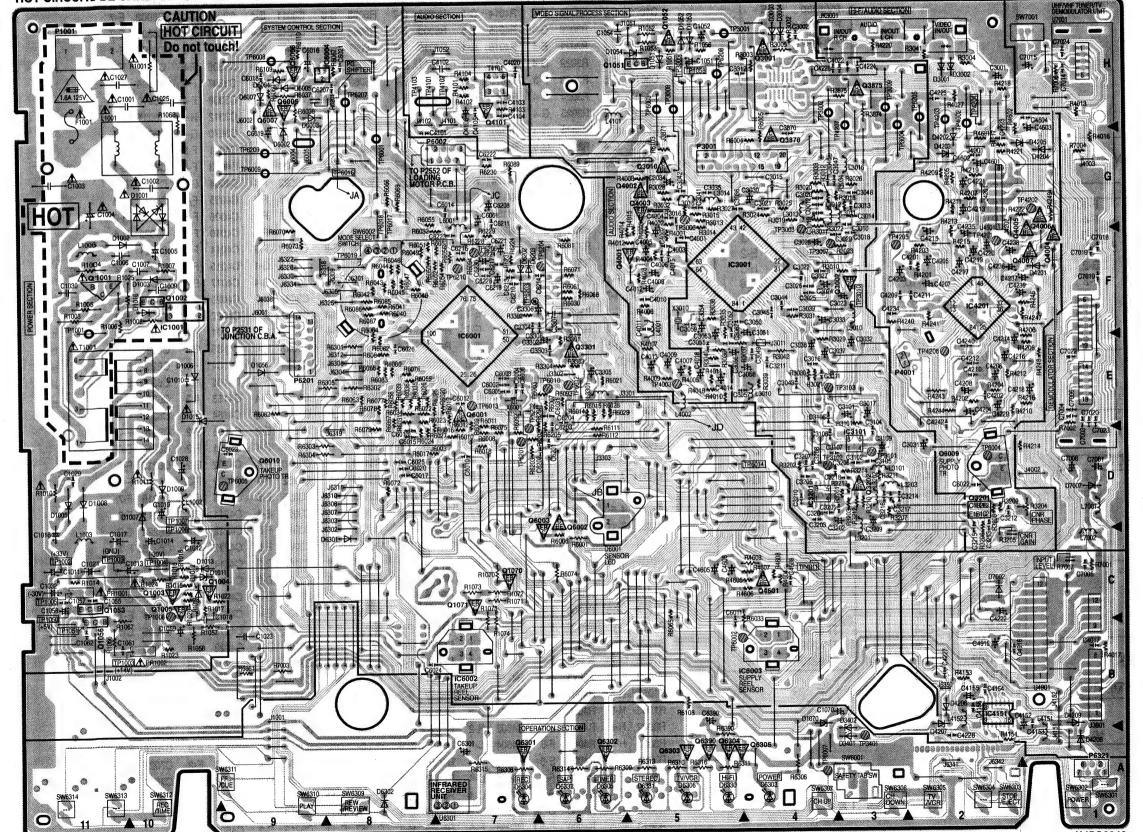
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCEMATIC SECTION.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.

NOTE:

CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS.
FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING,
PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

HOT CIRCUIT. BE CAREFUL AND USE AN ISOLATION TRANSFORMER WHEN SERVICING.



COMPARISON CHART OF MODELS & MARKS

_		
	MODEL	MARK
	PV-8400	Α
	PV-8400-K	В
	PV-8401	С
	VHQ840	D
	PV-8450	E
	PV-8450-K	F
	VHQ860	G
	Not Used	Z



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VJBS0A5

COMPARISON CHART OF MODELS & MARKS

SI MODELO & MANINO			
MODEL	MARK		
PV-8400	Α		
PV-8400-K	В	l	
PV-8401	Ċ		
VHQ840	D		
PV-8450	E		
PV-8450-K	F		
VHQ860	G		
Not Used	Z		

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCEMATIC SECTION.

COMPONENT PARTS LOCATION GUIDE

MAIN	C.B.A.	(D, G)

	· Alger
MA	AÍN
	С
IC1001	F-10
IC3001	F-4
IC3101	D-3
IC3201	D-4
IC4151	B-2
IC4201	F-2
IC6001	F-7
IC6002	B-7
IC6003	B-4
IC6004	H-8

MAIN				
CONNE	CTOR			
P1001	H-11			
P3001	G-5			
P4001	E-3			
P6002	G-8			
P6201	E-9			
P6321	A-1			

MAIN					
ADJUS	TMENT				
R3204	D-1				
R3205	C-2				
R6201	H-8				

MAIN							
TEST	POINT						
TP1001	F-11						
TP1002	C-11						
TP1003	B-11						
TP1004	C-10						
TP1005	C-11						
TP1006	D-10						
TP1007	D-10						
TP1008 TP1009	C-10 C-11						
TP1009	C-11						
TP1050	B-11						
TP1058	H-5						
TP3001	H-4						
TP3002	H-4						
TP3003	G-4						
TP3004	G-3						
TP3005	H-5						
TP3006	G-5						
TP3007	F-3						
TP3008	H-5						
TP3009	H-3						
TP3010	F-3						
TP3101	D-3						
TP3102	D-4						
TP3103	E-3						
TP3401	A-3						
TP4002	H-2						
TP4003	E-5						
TP4011 TP4101	C-4						
TP4101	H-8						
TP4102	H-7						
TP4201	H-8 F-2						
TP4201	G-1						

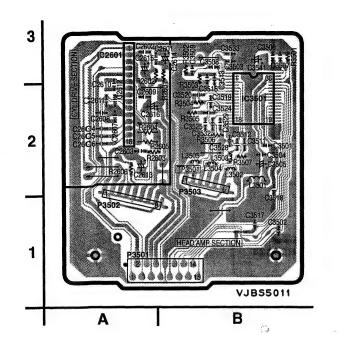
MAIN							
TEST POINT							
TP4203	H-2						
TP4204	H-2						
TP4205	F-3						
TP4206	E-2						
TP4207	H-3						
TP6001	G-8						
TP6002	B-4.						
TP6003	H-5						
TP6004	D-2						
TP6005	D-9						
TP6007	A-4						
TP6008	H-9						
TP6009	G-9						
TP6010	E-6						
TP6012	E-6						
TP6013	E-7						
TP6014	D-4						
TP6016	G-8						
TP6017	G-8						
TP6018	G-8						
TP6019	F-8						
TP6201	D-7						
TP6202	E-6						
TP6203	F-6						
TP6204	F-6						
TP6205	H-2						
TP6206	F-7						
TP6207	H-8						
TP6208	H-5						
TP6209	G-9						
TP6210	F-7						

LEADLESS COMPONENT PARTS LOCATION GUIDE

		OMPONE	NT PA	ARTS LOC	OITA	N GUIDE									
	C.B.A.														
Q1003	3 C-10	R3014	G-5	R4010	E-5	R6004	G-4	R6061	F-6	C1061	B-11	C3214	D-3	C4604	H-1
Q1004	4 C-10	R3015	G-5	R4011	E-5	R6005	G-4	R6062	E-8	C1062	B-11	C3215	C-2	C4606	C-5
Q1008	5 C-10	R3016	G-5	R4012	F-5	R6006	C-6	R6063	E-8	C3002	H-4	C3216	D-3	C4608	C-4
Q1052	2 H-5	R3018	G-3	R4013	H-1	R6007	E-6	R6064	F-8	C3010	G-3	C3217	D-3	C4916	B-2
Q1070) C-7	R3019	G-4	R4014	G-5	R6008	D-7	R6065	B-5	C3011	E-4	C3218	D-3	C6002	E-7
Q107		R3020	G-4	R4015	G-5	R6009	E-7	R6066		C3012	G-4	C3303	E-6	C6003	E-7
Q300		R3021	E-4	R4016	G-1	R6010	D-7	R6067		C3013	G-3	C3304	F-6	C6004	E-7
Q3002		R3022	G-4	R4017	B-1	R6011	E-7	R6068	2.0	C3014	G-3	C3306	F-6	C6005	E-7
Q3010		R3023	F-3		E-5		E-7			C3015	G-4	C3307	F-6	C6006	
			G-4	R4018		R6012		R6069						- 6 3/-/-	E-7
Q320		R3024		R4027	H-2	R6014	E-6	R6070		C3016	E-4	C3308	F-6	C6010	D-7
Q3202		R3025	G-4	R4028	F-5	R6015	E-6	R6071	F-6	C3018	F-3	C3312	H-4	C6011	C-4
Q330		R3026	G-3	R4101	H-7	R6016	E-7	R6072		C3019	G-4	C3870	G-4	C6012	E-7
Q3870		R3027	G-5	R4102	H-7	R6017	D-8	R6073		C3020	G-4	C4001		C6013	E-8
Q3875		R3028	G-5	R4103	H-7	R6018	D-7	R6075		C3021	G-4	C4003	F-5	C6014	G-7
Q4001		R3029	E-4	R4104	H-7	R6019	E-7	R6076		C3022	F-4	C4004	G-5	C6015	D-8
Q4002	2 G-5	R3030	E-4	R4153	B-2	R6020	E-7	R6077	E-8	C3025	F-4	C4005	F-5	C6017	D-8
Q4003	3 G-5	R3031	F-4	R4154	A-2	R6021	E-6	R6078	E-8	C3026	F-4	C4006	F-5	C6018	H-9
Q4004	4 F-1	R3032	G-5	R4201	F-2	R6022	E-8	R6079	E-8	C3027	F-4	C4010	F-5	C6020	D-8
Q4005	5 F-1	R3033	G-4	R4202	E-2	R6023	E-8	R6080	E-8	C3029	F-3	C4011	F-5	C6021	H-8
Q4006	G-1	R3034	G-3	R4203	F-2	R6024	D-8	R6081	F-6	C3035	G-1	C4015	F-5	C6022	D-2
Q4007	7 F-1	R3035	F-5	R4204	E-2	R6025	E-7	R6082	E-9	C3036	G-4	C4017	B-1	C6023	D-9
Q4101	I H-7	R3036	E-5	R4205	G-2	R6026	E-8	R6083	E-8	C3039	F-4	C4020	H-7	C6024	B-8
Q4601	I C-4	R3037	E-4	R4206	E-1	R6026	E-8	R6084	E-8	C3041	G-5	C4022	H-3	C6025	D-8
Q6001	E-7	R3038	F-5	R4207	G-2	R6027	D-7	R6085	F-8	C3042	G-5	C4101	H-8	C6031	E-6
Q6002		R3039	E-4	R4208	E-1	R6028	E-6	R6086		C3043	E-4	C4103	H-7	C6201	D-6
Q6003		R3040	E-5	R4209	G-2	R6029	E-6	R6087		C3044	F-4	C4104	H-7	C6202	D-6
Q6005		R3041	H-2	R4210	E-2	R6030	F-6	R6088	E-8	C3045	F-4	C4105	H-7	C6203	E-6
Q6006		R3101	E-3	R4211	G-2	R6031	E-8	R6089		C3046	G-4	C4153	A-2	C6204	E-6
Q6007		R3201	D-3	R4212	E-2	R6032	G-8	R6092		C3047	G-3	C4154	B-2	C6207	H-8
Q630		R3202	D-4	R4213	F-2	R6034	E-8	R6093	E-6	C3048	G-3	C4156	B-2	C6210	F-7
	2 A-6	R3203	D-3	R4214	D-1	R6035	E-8	R6094		C3049	E-4	C4201	F-2	C6211	G-7
Q6303		R3206	C-2	R4215	F-2	R6036	E-8	R6103		C3050	F-4	C4201	E-2	C6213	G-7
Q6304		R3207	D-3	R4216	E-1	R6039	E-8	R6108		C3052	F-4	C4202	F-3	C6214	F-6
Q6305		R3208	D-3	R4217	G-2	R6040	F-8	R6109		C3055	E-5	- 10.00			F-7
	<			R4218	,							C4210	E-2		
Q6390		R3209				R6041	F-8			C3057		C4211	F-2		F-7
	F-11	R3210	D-3	R4219	G-2	R6042		R6111	E-6	C3059	F-5	C4212	E-2	C6222	G-7
	C-11	R3211	D-3	R4220	H-3			R6112	D-6	C3062	E-5	C4213	G-2		F-7
	C-10	R3212	D-3	R4221	G-2	R6044		R6202	D-6	C3102	D-3	C4214	E-2		F-7
	C-10	R3213	D-3	R4222	G-1	R6045		R6203	D-6	C3104	D-3	C4215			F-7
	C-10	R3214	D-3	R4240	F-3		F-8	R6204	E-6	C3105	D-3	C4216	E-2	C7003	E-1
	C-10	R3301	E-6	R4241	F-2	R6047	F-8 _.	R6205	D-6	C3106	E-4	C4217	F-2	C7004	E-1
	C-10	R3302	F-6	R4244	E-2	R6048	F-8	R6224	F-7	C3107	D-4	C4218	E-1	C7005	C-1
R1020	C-10	R3303	E-6	R4246	F-1	R6049	F-8	R6228	F-7	C3108	D-4	C4223	G-2	C7006	E-1
R1022	C-10	R3304	E-6	R4247	F-1	R6050	F-8	R6229	G-7	C3201	D-3	C4224	H-3	C7010	F-1
R1023	B-10	R3875	H-3	R4248	E-1 -	R6051	F-8	R6230	G-7	C3203	D-4	C4225	H-2	C7014	H-1
R1051	H-5	R4001	F-5	R4249	G-1	R6052	F-7	R6231	F-7	C3204	D-4	C4226	H-3	C7018	F-1
R1056	H-5	R4002	G-5	R4601	G-2	R6053	E-7	R7001	C-1	C3205	D-4	C4227	B-2	C7019	F-1
R3002		R4003	G-5	R4602	H-2		F-7	R7002	E-1	C3206	D-4	C4228	A-2		E-1
R3003		R4004	F-5	R4604	C-4	R6055	G-8	R7004	G-1	C3207	D-4	C4234	F-3	C7022	
R3004		R4005	E-5	R4605	C-4		F-7	R7006	H-1	C3208	D-4	C4240	E-2	C7023	
R3010		R4006	F-5	R4606	C-4	R6057	E-8	C1010		C3210	D-4	C4242	E-2	C7024	
R3011	G-4	R4007	E-5	R4607	C-4	Merca	E-8	C1010		C3211	E-4	C4601	G-2	01024	
R3012		R4008	G-5	R4608		R6059		C1029	224	C3211		C4602	G-2	-1	
D2012		D4000		D6002		Denen		C1055		C2012		C4602			

R3013 G-5 R4009 E-5 R6003 E-6 R6060 H-9 C1057 C-11 C3213 C-2 C4603 H-1

HEAD AMP C.B.A. VEPS5011A (A, B, C, D)



HEAD AMP								
-	IC							
IC2601	A-3							
IC3501	C-2							
CONNECTOR								
P3501	A-1							
P3502	A-1							
P3503	B-2							
TEST	POINT							
TP3501	C-2							

LEADLESS COMPONENT PARTS LOCATION GUIDE HEAD AMP C.B.A.					
R2601	B-2	C2607	A-2	C3516	B-2
R2602	A-3	C2608	A-2	C3517	B-1
R2603	A-2	C2609	A-2	C3518	B-1
R2606	A-2	C2610	A-3	C3519	B-2
R3501	B-3	C2611	A-2	C3520	B-2
R3502	B-3	C2612	A-2	C3524	B-2
R3503	B-2	C3501	B-2	C3525	B-2
R3504	B-2	C3502	B-1	C3528	B-2
R3505	B-2	C3503	B-3	C3529	B-2
R3506	B-2	C3504	B-2	C3532	B-2
R3507	B-2	C3506	B-3	C3533	B-3
C2601	B-3	C3507	B-3	L3502	B-2
C2602	A-3	C3508	B-3	L3503	B-2
C2603	A-2	C3509	B-3	L3504	B-2
C2604	A-2	C3511	B-2	L3505	B-2
C2605	A-2	C3512	B-2		
C2606	A-2	C3513	B-2		

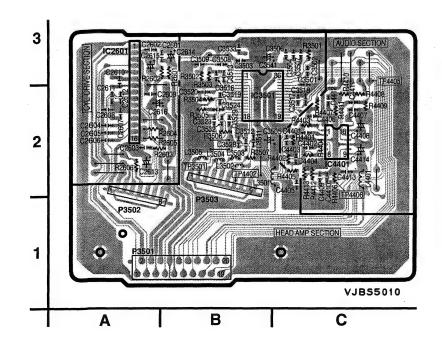
NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCEMATIC SECTION.

NOTE:

CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS.
FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING,
PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

Hi-Fi AUDIO/VIDEO HEAD AMP C.B.A. VEPS5010B (E, F, G)



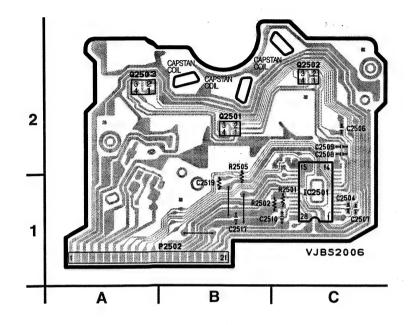
	Hi-Fi AUDIO/VIDEO HEAD AMP				
10	0				
IC2601	A-3				
IC3501	C-2				
IC4401	C-2				
CONNE	CTOR				
P3501	A-1				
P3502	A-1				
P3503	B-1				
TEST	POINT				
TP3501	C-2				
TP4402	B-2				
TP4405	C-3				
TP4406	C-2				

LEADLESS COMPONENT PARTS LOCATION GUIDE						
		O HEAD AN				
R2601	B-3	C2602	A-3	C3519	B-2	
R2602	A-2	C2603	A-2	C3520	B-2	
R2603	A-2	C2604	A-2	C3523	B-2	
R2606	A-2	C2605	A-2	C3524	B-2	
R3501	C-3	C2606	A-2	C3528	B-2	
R3502	B-3	C2607	A-2	C3529	B-2	
R3503	B-3	C2608	A-2	C3532	B-2	
R3504	B-2	C2609	A-2	C3533	B-3	
R3505	B-2	C2610	A-3	C4401	C-2	
R3506	B-2	C2611	A-2	C4402	C-2	
R3507	B-2	C2612	A-2	C4403	C-2	
R4401	C-2	C3501	C-3	C4404	C-2	
R4402	C-2	C3502	C-3	C4405	C-2	
R4403	C-2	C3503	B-3	C4406	-C-2	
R4404	C-2	C3504	C-3	C4407	C-2	
R4405	C-2	C3506	C-3	C4409	C-2	
R4406	C-2	C3507	C-3	C4410	C-2	
R4407	C-2	C3508	B-3	C4411	C-2	
R4408	Ç-2	C3509	B-3	C4412	C-2	
R4409	C-2	C3511	B-2	C4413	C-2	
R4410	C-2	C3512	B-2	L3502	B-2	
R4411	C-2	C3513	B-2	L3503	B-2	
R4412	C-2	C3516	B-2	L3504	B-2	
R4413	C-2	C3517	C-2	L3505	B-2	
C2601	B-3	C3518	C-2			
					1	

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
PV-8400	Α
PV-8400-K	В
PV-8401	С
VHQ840	D
PV-8450	E
PV-8450-K	F
VHQ860	G
Not Used	Z

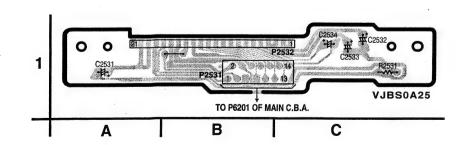
CAPSTAN STATOR UNIT



NOTE:

1.CAPSTAN STATOR UNIT IS SUPPLIED AS A CAPSTAN STATOR KIT ONLY.
HOWEVER, IC2501(AN3845SC) IS AVAILABLE SEPARATELY AS A REPLACEMENT PART.
2.WHEN INSTALLING THE IC2501 OR CAPSTAN STATOR UNIT, BE SURE TO APPLY SILICON GREASE (VFK1301). REFER TO "CAPSTAN STATOR UNIT" OF "DISASSEMBLY/ASSEMBLY PROCEDURES OF MECHANISM" SECTION.

JUNCTION C.B.A. VEPS0A25A



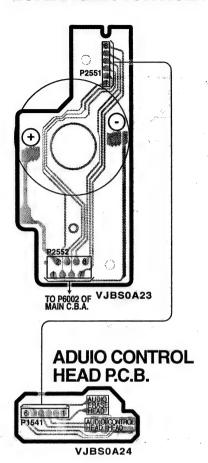
NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCEMATIC SECTION.

NOTE:

CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS. FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING, PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

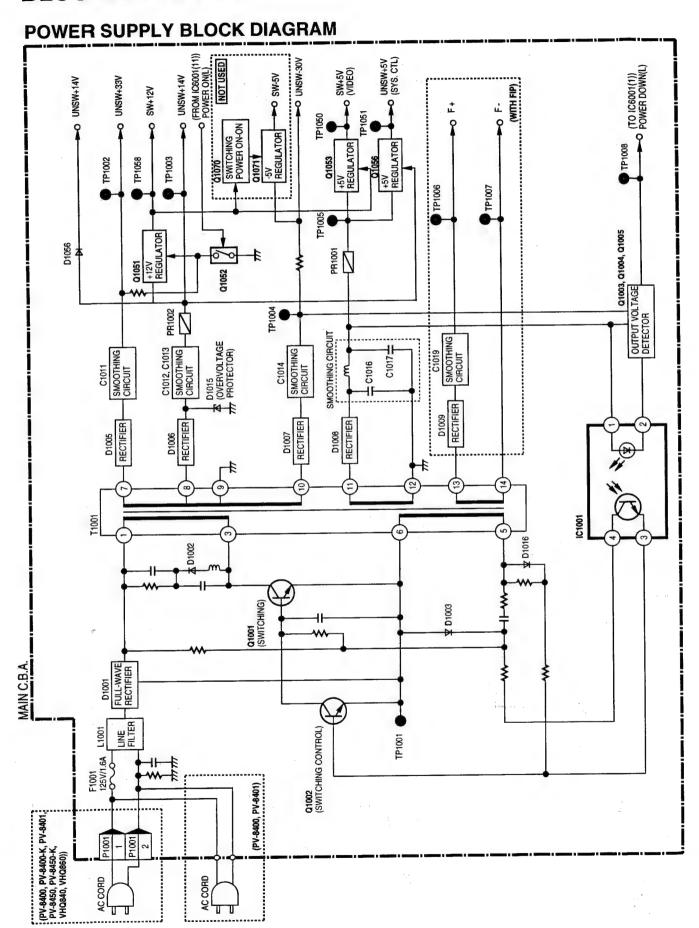
LOADING MOTOR P.C.B.

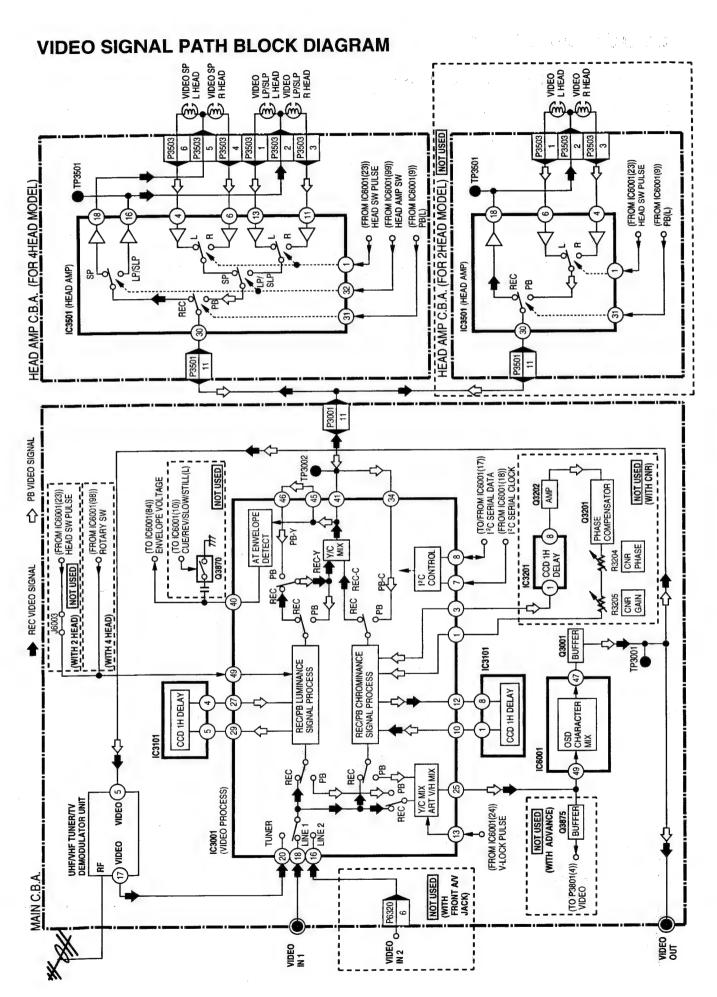


COMPARISON CHART OF MODELS & MARKS

C	OF MODELS	& MAH
	MODEL	MARK
	PV-8400	Â
	PV-8400-K	В
	PV-8401	С
	VHQ840	D
	PV-8450	E
	PV-8450-K	F
	VHQ860	G
	Not Used	Z

BLOCK DIAGRAMS

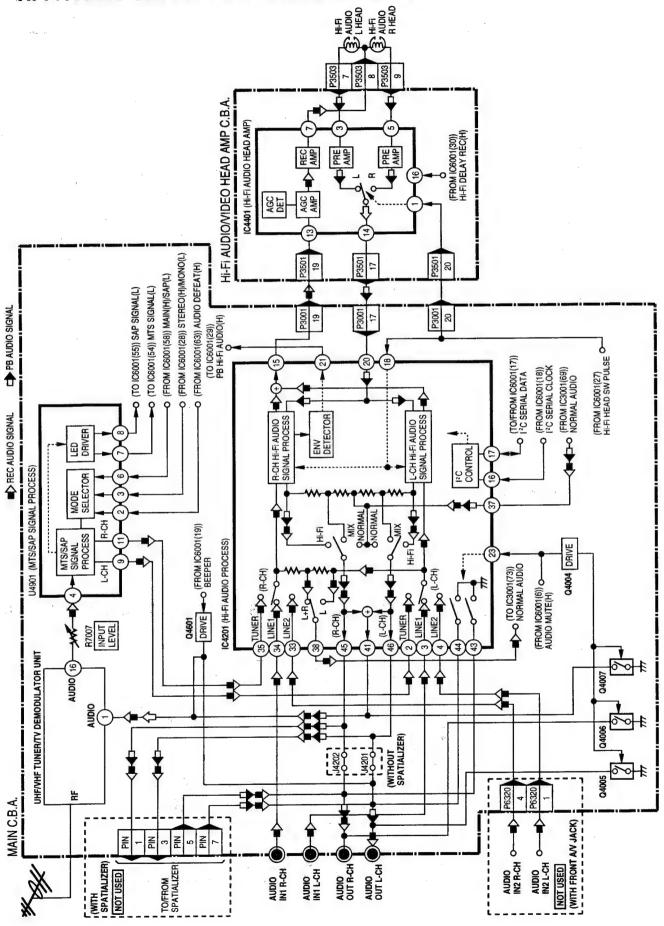




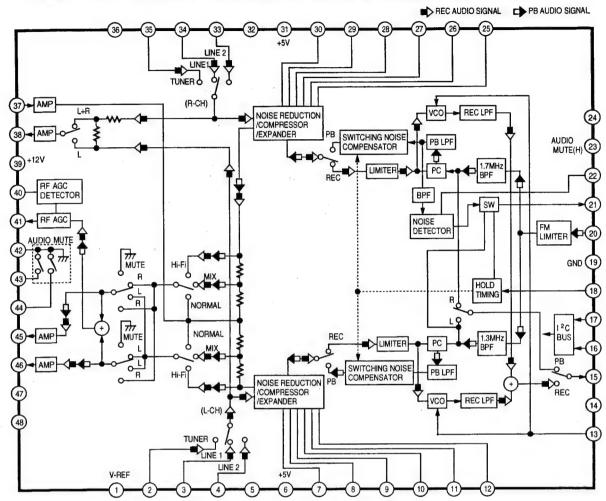
AUDIO SIGNAL PATH BLOCK DIAGRAM AUDIO CONTROL HEAD UNIT FULL ERASE HEAD UNIT AUDIO ERASE HEAD AUDIO HEAD FULL ERASE HEAD 6 6 P1541 P1541 P1541 LOADING MOTOR 2 NI 몺 P2551 P2551 P2551 P2552 P2552 P6002 P6002 P4001 2 P4001 P6002 P6002 (FROM IC6001(19)) BEEPER BIAS OSC T4101,04101 PB AUDIO SIGNAL (TO/FROM IC6001(17)) (FROM IC6001(6)) AUDIO MUTE(H) (TO P3801(6)) AUDIO (WITH ADVANCE) NOT USED FROM IC6001(18)) I2C SERIAL CLOCK 04002 Q4003 t REC-ON ■ PEC AUDIO SIGNAL REC PB I2C CONTROL 04001 DRIVE Q4005 RECOFF. AUDIO MUTE(H) +5V (WITHOUT HI-FI AUDIO) 04006 **~** AMP (WITH HI-FI AUDIO) (FROM IC4201(38)) NORMAL AUDIO 1004 (TO IC4201(37)) NORMAL AUDIO AGC DET C3001 (AUDIO PROCESS) **Q MUTE** UHF/VHF TUNER/TV DEMODULATOR UNIT . e (WITHOUT HI-FI AUDIO) TUNER LINE 16) AUDIO 胀 C4018 + SR4018 (FROM IC6001(35)) INPUT SELECT 2 (WITHOUT FRONT A/V JACK) 14002 LINE LINE MAIN C.B.A. IC4151 P6320 AUDIO AUDIO ((WITH FRONT AN JACK I WITHOUT HI-FI AUDIO) AUDIO O-NOT USED

IC3001 VIDEO/AIDIO PROCESS IC-BLOCK DIAGRAM, AN3476FBP No. PB AUDIO SIGNAL 28 REC-ON AMP 8 REC MUTE fH TRAP FREQUENCY DET § (3) DET X2 BPF PC ■ REC AUDIO SIGNAL 00 SP/LP-ON S.P.ON.S PB AMP PB VIDEO SIGNAL CHROMA PHASE COMPEN-SATOR ◆ 国 0 0 COLOR KILLER DETECTOR CNR 2 F Į_E REC ROTARY 8 SP SVB LPF 띪 REC VIDEO SIGNAL BURST UP/DOWN AH 라 49 (B) 629kHz LPF RF IN LP/SLP 3.58MHz BPF ACC DET ⇎ AMP AMP **₽**CC I.P. COLOR KILLER SW FM DEMODULATOR BET HEC 4.8MHz TRAP COMPOSITE COMPONENT O REC MAIN DE-EMPHASIS PBQ DOUBLE NON LINEAR DE-EMPHASIS NON LINEAR EMPHASIS COMPOSITE REC O TO DELAY LIPF 8 CLAMP SYNC SEPARATION Sw 49 LIMITER ℗ ENVE DETECTOR PEAKING BPF /GAIN CTL AMP COLOR KILLER SW HPF (♣ MAIN EMPHASIS W • W 1 PBP L DOP DETECTOR §(£ REC CLAMP CLAMP OT HA HEC O 8MHz TRAP AGC DET (° W/D lg lg ONO ONO 629KHz TRAP PHASE COMPENSATOR DOC SW OFF £ (E) FM MODULATOR Y/C MIX GCA DETECTOR HPF LIMITER Y/C MIX GAIN CT. AMP (R) TUNER LINE? (F) § ARTIFICIAL V/H SYNC MIX REC RF EQUALIZER YNA ۾ لن` AT ENVE DETEC-TOR GNO VREG GND ((A)

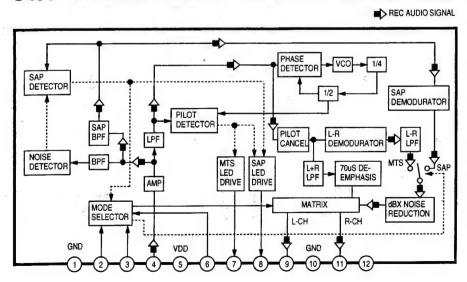
Hi-Fi AUDIO SIGNAL PATH BLOCK DIAGRAM

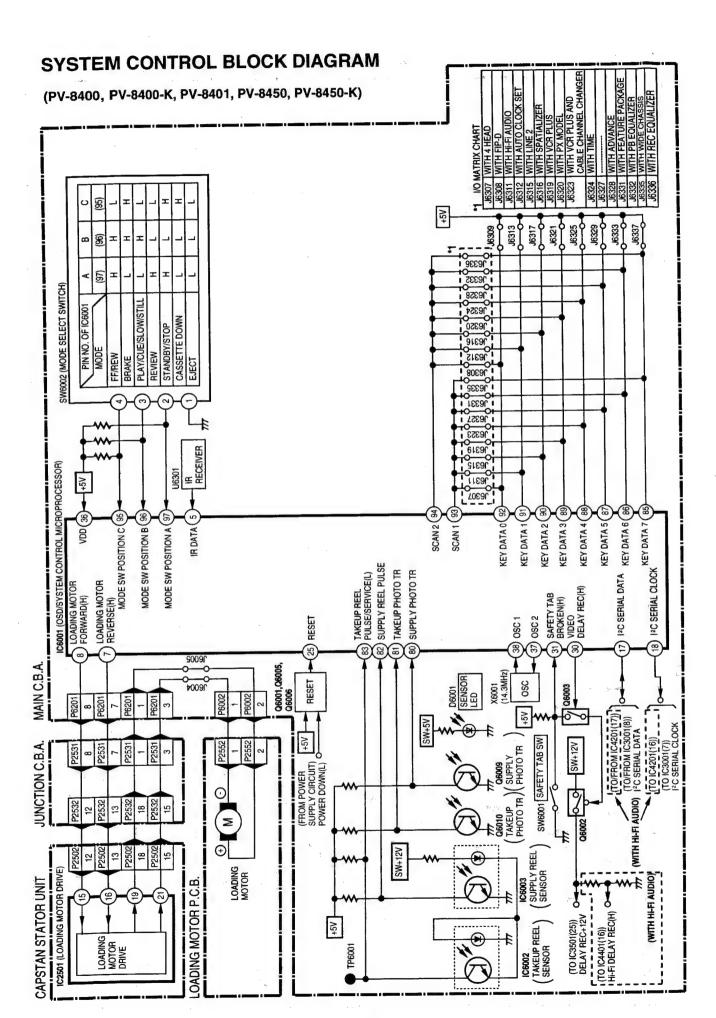


IC4201 Hi-Fi AUDIO PROCESS IC-BLOCK DIAGRAM, AN3962FB-V



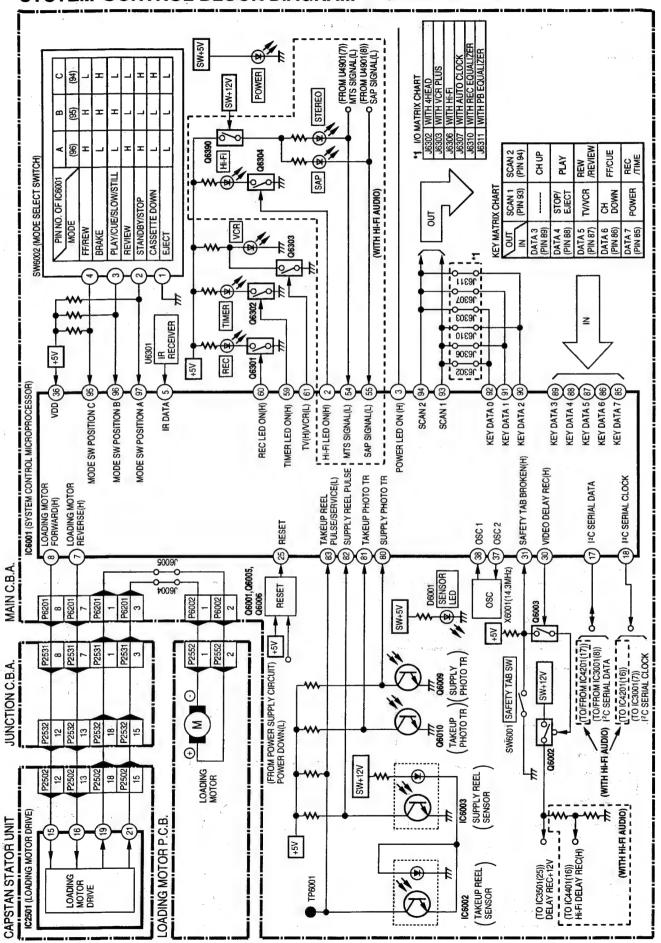
U4901 MTS/SAP AUDIO PROCESS IC-BLOCK DIAGRAM, VCRS0215



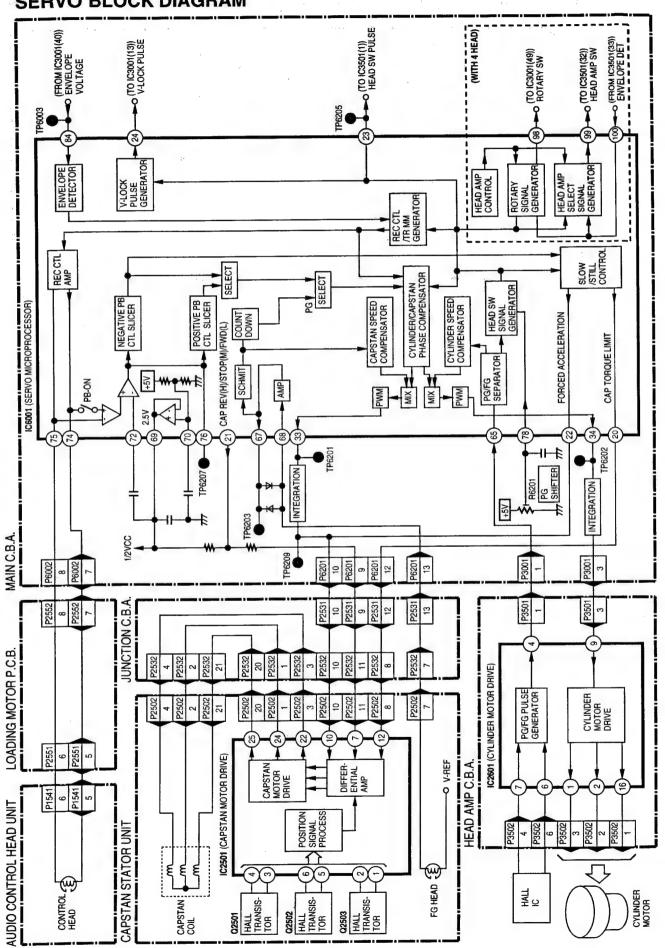


SYSTEM CONTROL BLOCK DIAGRAM

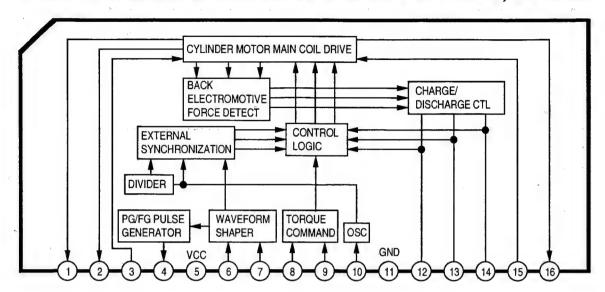
(VHQ840, VHQ860)



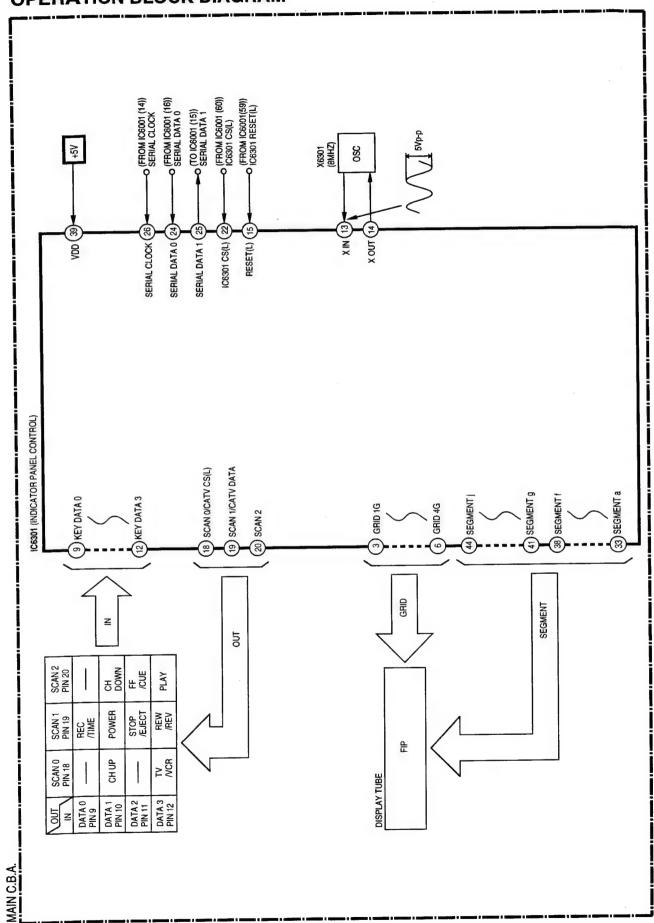
SERVO BLOCK DIAGRAM



IC2601 CYLINDER MOTOR DRIVE IC-BLOCK DIAGRAM, AN3809K



OPERATION BLOCK DIAGRAM

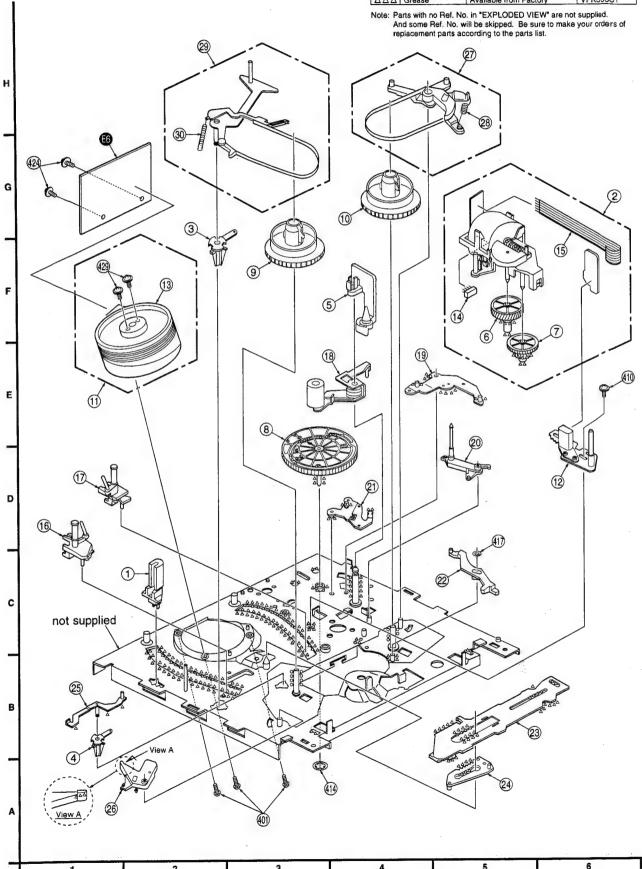


EXPLODED VIEWS

1 MECHANISM (TOP) SECTION

LUBRICATION POINTS
When the marked parts are replaced, apply the recommended lubricants or adhesive for better maintenance of the unit.

Mark	Kind of Lubricant	Availability	Part Number
XXX	Silicon Grease	Available from Factory	VFK1301
000	Spindle Oil	Purchase from Local Supplier	
ΔΔΔ	Grease	Available from Factory	VFKS0081

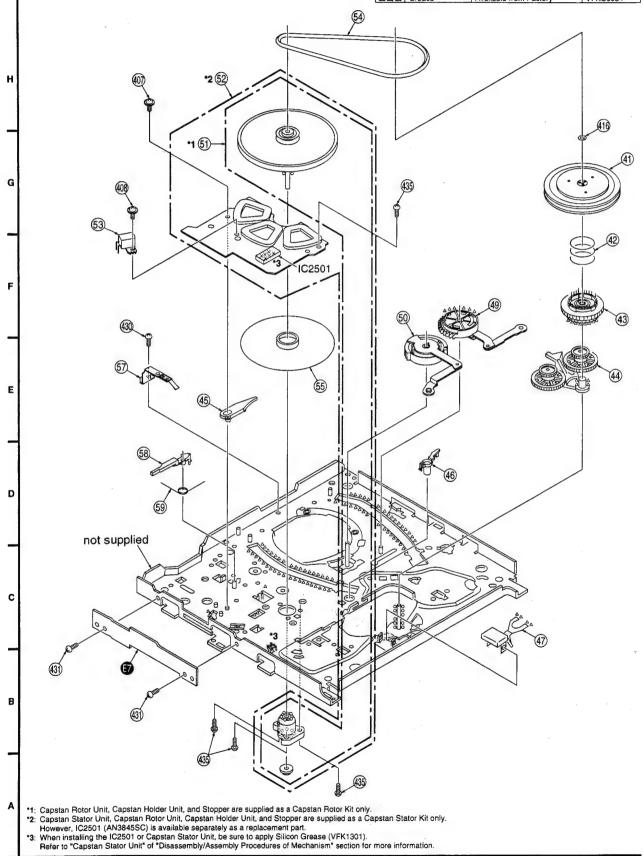


2 MECHANISM (BOTTOM) SECTION

LUBRICATION POINTS

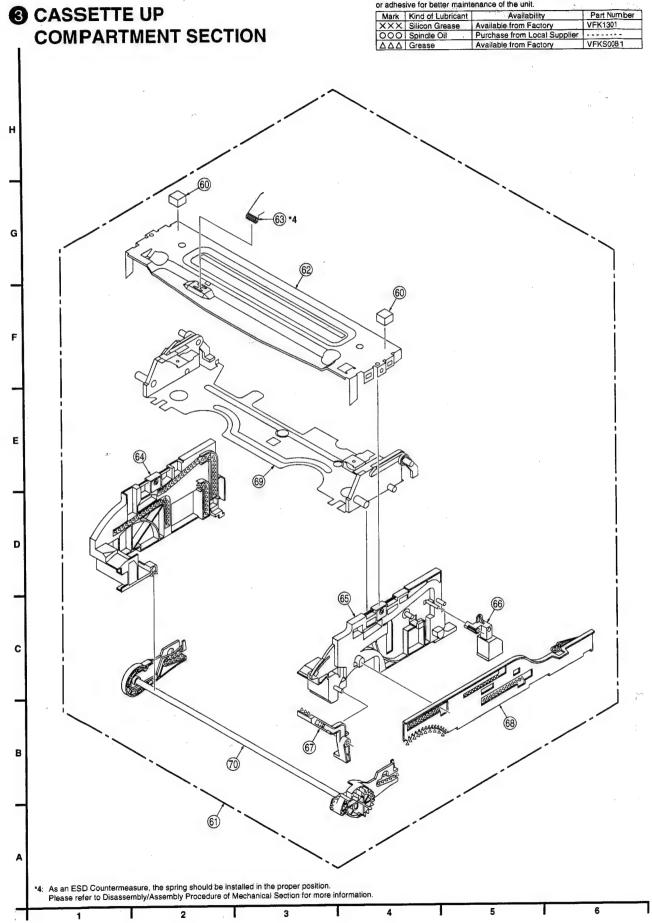
When the marked parts are replaced, apply the recommended lubricants or adhesive for better maintenance of the unit.

1	Mark	Kind of Lubricant	Availability	Part Number
	XXX	Silicon Grease	Available from Factory	VFK1301
	000	Spindle Oil	Purchase from Local Supplier	
	ΔΔΔ	Grease	Available from Factory	VFKS0081



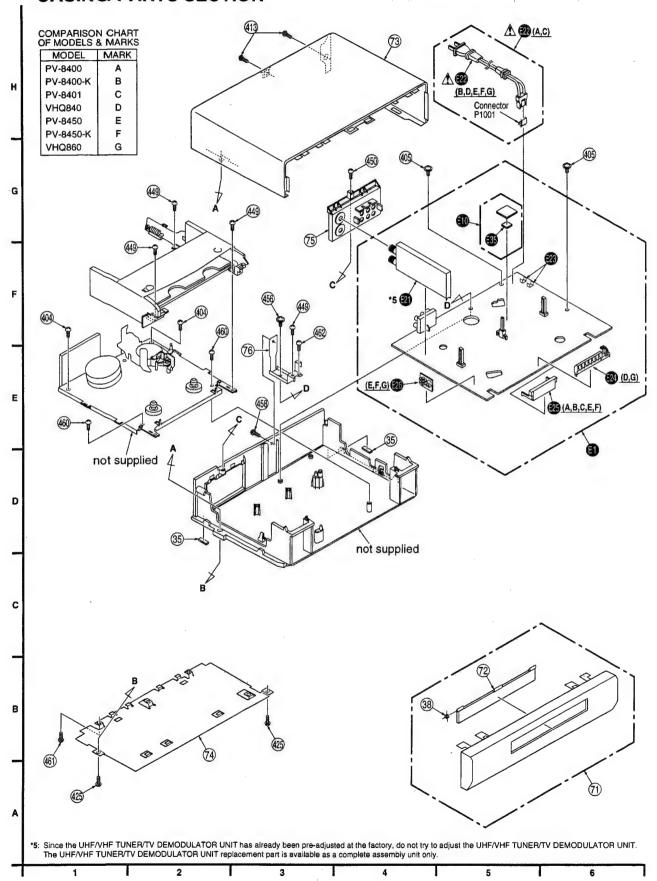
LUBRICATION POINTS
When the marked parts are replaced, apply the recommended lubricants or adhesive for better maintenance of the unit.

Mark	Kind of Lubricant	Availability	Part Number
XXX	Silicon Grease	Available from Factory	VFK1301
000	Spindle Oil .	Purchase from Local Supplier	
A A A	Greace	Available from Factory	VEKS0081

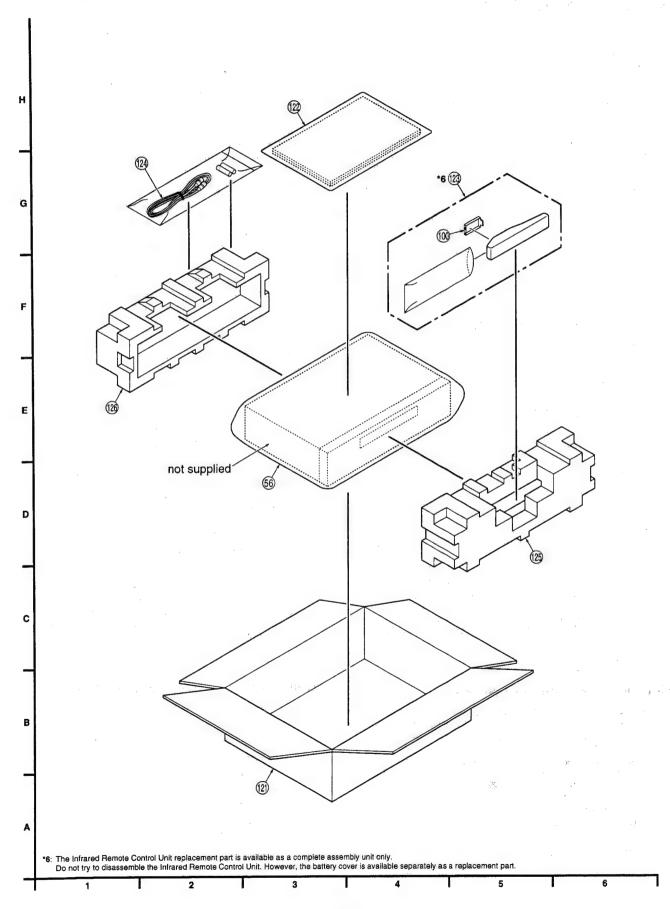


4 CHASSIS FRAME AND **CASING PARTS SECTION**

IMPORTANT SAFETY NOTICE COMPONENTS IDENTIFIED BY THE SIGN A HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SPECIFIED PARTS.



5 PACKING PARTS AND ACCESSORIES SECTION



REPLACEMENT PARTS LISTS

BEFORE REPLACING PARTS. **READ THE FOLLOWING:**

1. Use only original replacement parts: To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list.

IMPORTANT SAFETY NOTICE

Components identified by the sign \triangle have special characteristics important for safety. When replacing any of these components, use only the specified parts.

SPECIAL NOTE

All integrated circuits and many other semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "ELECTROSTATICALLY SENSITIVE (ES) DE-VICES" section of this service manual.

Parts with no Ref. No. in "EXPLODED VIEW" are not supplied. And some Ref. No. will be skipped. Be sure to make your orders of replacement parts according to the

parts list.

5. Parts different in shape or size may be used. However, only interchangeable parts will be supplied as service replacement parts.

The parts which "AKEI" is indicated in Remarks column will be supplied from AKEI factory.

Mechanical Replacement Notes

- 1. Section No. of parts shown in Exploded Views are indicated in the Remarks column.
- Capstan Rotor Unit, Capstan Holder Unit, and Stopper are supplied as Capstan Rotor Kit (Ref No. 51) only.
- Capstan Stator Unit, Capstan Rotor Unit, Capstan Holder Unit, and Stopper are supplied as a Capstan Stator Kit (Ref No. 52) only. However, IC2501 (AN3845SC) is available separately as a replacement part. When installing the IC2501 or Capstan Stator unit, be sure to apply Silicon Grease (VFK1301). Refer to "Capstan Stator Unit" of "DISASSEMBLY/ASSEMBLY PROCEDURES OF MECHANISM" section.

 4. Since the UHF/VHF TUNER/TV DEMODULATOR UNIT

(Ref No. E21) has already been pre-adjusted at the factory, do not try to adjust the UHF/VHF TUNER/TV DEMODULATOR UNIT. The UHF/VHF TUNER/TV DEMODULATOR UNIT replacement part is available as

a complete assembly unit only.

5. The Infrared Remote Control Unit (Ref No. 123) replacement part is available as a complete assembly unit only. Do not try to disassemble the Infrared Remote Control Unit. However, the battery cover is available separately as a replacement part.

Cut Washers (Ref No. 416 and 417) are not reusable.

If removed, install a new one,

7. Main Cam Push Nut (Ref No. 414) is not reusable. If removed, install a new one.

Electrical Replacement Notes

1. Item numbers with capital letter E (Example: E1, E2,...) in the Ref. No. column are shown in the exploded views. The E item numbers are also printed on the same page at the top of the column.

The parts with "■" mark are supplied individually or as a unit. The parts with "▲" mark are supplied individually or as a unit, and are included in "■" parts listed directly

above in the parts list.

Unless otherwise specified; All resistors are in ohms, 1/4W, +/-5%, carbon, K = 1,000 ohm, M = 1,000 kohm.

All capacitors are in microfarads, P = micromicrofarad.

All coils are in microhenries, M = 1,000 microhenry, +/-10%.

4. Abbreviation

RTL: Retention Time Limited

This indicates that the retention time is limited for this item. After the discontinuation of this item in production, it will no longer be available.

NR: Non Repairable Board Ass'y

MGF CHIP: Metal Glaze Film Chip

C CHIP: Ceramic Chip

COMPLX CMP: Complex Component W FLMPRF: Wirewound Flameproof

C.B.A.: Circuit Board Assembly P.C.B.: Printed Circuit Board

E.S.D.: Electrostatically Sensitive Devices

SERVICE OF CHIP PARTS

When servicing chip parts, please use a soldering iron of less than 30 watts. Refer to "IC, TRANSISTOR AND CHIP PART INFORMATION" page.

The parts with "

" are 0 ohm resistor. When replacing. a wire can be substituted for a 0 ohm resistor.

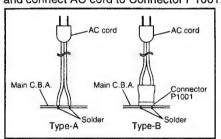
IC6301 replacement note:

The manufacturing part number is TMP47C216FF917. However, to order the part, use service order part number T47C216FF917.

8. AC cord replacement note

for models PV-8400 and PV-8401: Either Type-A or B is used as a AC cord for these models. However, for parts standardization and inter-

changeability, Type-B will be supplied with Connector P1001 as a kit (Part No.: VJAS0195-FS) for replacement. When replacing AC cord on products using Type-A. connect Connector P1001 to Main C.B.A. with solder and connect AC cord to Connector P1001.



9. Main C.B.A. replacement note for models PV-8400 and PV-8401: VEPS6040GA or VEPS6040GF for PV-8400, VEPS6040GB or VEPS6040GG for PV-8401 are used as their Main C.B.A. However, for parts standardization, only VEPS6040GA for PV-8400 and VEPS6040GB for PV-8401 are supplied as a replacement. Please note that VEPS6040GA and VEPS6040GF, VEPS6040GB and VEPS6040GG are interchangeable. Only interchangeable part is supplied as a replacement.

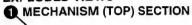
COMPARISON CHART OF MODELS & MARKS

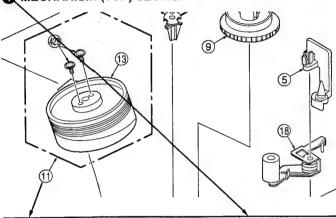
MODEL	MARK
PV-8400	Α
PV-8400-K	В
PV-8401	С
VHQ840	D
PV-8450	E
PV-8450-K	F
VHQ860	G

MECHANICAL REPLACEMENT **PARTS LIST**

The complete Exploded Views are shown in this manual.>
EXPLODED VIEWS







Ref. No.	Part No.		
		Part Name	Remarks
		MECHANISM PARTS ON	CHASSIS
		WECHANISM PARTS ON	(Section No.)
1	VBSS0032	FULL ERASE HEAD	(Section No.)
1		MOTOR BLOCK ASS' Y	1
2	VXKS0867	MOTOR BLOCK ASS T	
_	OR VXKS0876	TENSION ARM BOSS	1
3	VDBS0349		1
4	VDBS0351	S BRAKE ARM BOSS	1
5	VMDS0971	OPENER PIECE	1
6	VDGS0428	WORN WHEEL GEAR	1
7	VDGS0429	INTERMEDIATE GEAR	
8	VDGS0430	MAIN CAM GEAR	1
9	VDRS0056	S REEL TABLE	1
10	VDRS0057	T REEL TABLE	1
11		CYLINDER UNIT	
	VEGS0397	(A, B, C, D)	1
	VEGS0399	(E,F,G)	1 1 AKE
12	VEHS0559	AUDIO CONTROL HEAD UNIT	1 AKE
13		UPPER CYLINDER UNIT	
	VEHS0561	(A, B, C, D)	1
	OR VEHS0554	1,	
	VEHS0562	(E,F,G)	1
	OR VEHS0555		
14	VJSS0882	CONNECTOR 8P	1
15	VJWS6LB100LL	COMMU CABLE W/OUT PLUG	1
16	VXDS0198	LOADING POST BASE-S UNIT	1
17	VXDS0195	LOADING POST BASE-T UNIT	1
18	VXLS1078	PINCH ARM UNIT	1
19	VMLS0978	MAIN LEVER DRIVE ARM	11
20	VXLS1063	P5 ARM UNIT	1
21	VMLS0976	DRIVE RACK ARM	1
22	VMLS0972	CHANGING LEVER A	1
23	VMLS0977	MAIN LEVER	. 1
24	VXLS1072	LOADING RACK UNIT	1
25	VXLS1061	S BRAKE ARM UNIT	1
26	VMLS0982	S SPRING ARM	1
27	VXLS1062	T BRAKE UNIT	1
28	VMBS1150	T BRAKE SPRING	1
29	VXLS1074	TENSION ARM UNIT	1
30	VMBS1164	TENSION SPRING	. 1
35	VKAS0047	RUBBER FOOT	4
38	VMBS1161	CASSETTE DOOR SPRING	4
41	VXPS0379	CENTER CLUTCH UNIT	2
42	VMBS1151	CHANGING GEAR SPRING	2
43	VDGS0425	CHANGING GEAR	2
44	VXLS1053	IDLER ARM UNIT	2
45	VMDS0985	PCB HOLDER	2
46	VMDS0982	MAIN LEVER GUIDE	2
46			
46			
46			
46			

Ref. No.	Part No.	Part Name	Remarks
47	VMLS0973	CHANGING LEVER B	2
49	VXLS1054	S LOADING ARM UNIT	2
50	VXLS1056	T LOADING ARM UNIT	2
51	VXPS0382K2	CAPSTAN ROTOR KIT	2
52	VEMS0316K2	CAPSTAN STATOR KIT	2
53	VBKS0040	FG HEAD	2
54	VDVS0087	CAPSTAN BELT SQUARE, ELASTOMER	2
ec.	1844 CO1 2E	2MM SUB ROTOR	2
55 [*]	VMAS2135 VPFS0095	SHEET, POLYETHYLENE	5
57	VXBS0061	GROUNDING PLATE UNIT	2
58	VXLS1070	SS BRAKE ARM UNIT	2
59	VMBS1155	SS BRAKE SPRING	2
60	VMFS0311	CUSHION	3
61	VXYS1197	CASSETTE UP ASS'Y	3
62	VMAS2131	TOP PLATE	3
63	VMBS1159	GROUNDING SPRING	3
64	VMDS0990	SIDE PLATE L	3
65	VMDS0974	SIDE PLATE R	3
66	VMDS0979	SENSOR COVER	3
67	VMLS0987	OPENER LEVER	3
68	VXLS1064	DRIVE RACK UNIT	3
69	VXAS4404	HOLDER UNIT	3
70	VXLS1065	WIPER ARM UNIT	3
71		FRONT PANEL ASS'Y	
	VYPS6879	(A,B)	4
	VYPS6882	(C)	4
	VYPS6903	(D)	4
	VYPS6885	(E,F)	4
	VYPS6904	(G)	4
72		CASSETTE DOOR-LID UNIT	
	VYPS6881	(A, B, C)	4
	VYPS6884	(E,F)	4
		CASSETTE DOOR-LID	
	VGPS4269	(D)	4
	VGPS4270	(G)	4
73	VKMS2457	TOP COVER	4
74		BOTTOM PANEL	
	VKUS0271	(A,B,C,D)	4
	VKUS0270	(E,F,G)	4
75		REAR PANEL	
	VGPS4102	(A, B, C, D)	4
70	VGPS4103	(E,F,G)	4
76	VMAS2136 VKFS2221	CHASSIS ANGLE BATTERY COVER	5
100	VKF52221	PACKING CASE, PAPER	3
121	VPGS4311	(A)	5
	VPGS4311	(B)	5
	VPGS4321	(C)	5
	VPGS4312	(D)	5
	VPGS4313	(E)	5
	VPGS4313	(F)	5
	VPGS4317	(G)	5
122	11 001317	FAN BAG	
	VQFS3412	(A)	5
	VQFS3449	(B,F)	5
	VQFS3413	(C)	5
	VQFS3437	(D,G)	5
	VQFS3409	(E)	5
123		INFRARED REMOTE CONTROL UNIT	
	VSQS1560	(A,B,C)	5
	VSQS1562	(D)	5
	VSQS1559	(E,F)	5
	VSQS1561	(G)	5
124	VJAS0196	VHF CONNECTING CABLE	5
125		FRONT CUSHION, STYROFOAM	
	VPNS0590	(A, B, C, E, F)	5
	VPNS0579	(D,G)	5
126	VPNS0580	REAR CUSHION, STYROFOAM	5

Ref. No.	lef. No. Part No. Part Name		Remarks
		SCREWS AND WASHERS	
401	VHDS0475	SCREW, STEEL	1
404	VHDS0472	SCREW, STEEL	4
405	VHDS0496	SCREW W/WASHER, STEEL	4
407	XYN26+C5	SCREW W/WASHER, STEEL	2
408	XYN2+J5FZ	SCREW W/WASHER, STEEL	2
410	VHDS0498	SCREW W/WASHER, STEEL	1
413	VHDS0293	SCREW, STEEL	4
414	VHNS0070	MAIN CAN PUSH NUT, STEEL	1
416	VMXS0922	CUT WASHER, NYLON	2
417	VMXS0865	CUT WASHER, NYLON	1
424	XYC26+SF6J	SCREW W/WASHER, STEEL	1
425	XTB3+12A	TAPPING SCREW, STEEL	4
429	VHDS0491	SCREW W/WASHER, STEEL	. 1
430	XTV26+6FFZJ	TAPPING SCREW, STEEL	2
431	XTV26+6FJ	TAPPING SCREW, STEEL	2
435	XSN26+4	SCREW, STEEL	2
449	VHDS0493	TAPPING SCREW, STEEL	4
450	VHDS0309	SCREW, STEEL	4
456	VHDS0497	SCREW W/WASHER, STEEL	4
458	XTV3+8J	TAPPING SCREW, STEEL	4
460	XTN4+12A	TAPPING SCREW, STEEL	4
461	VHDS0460	SCREW, STEEL	4
462	XTN4+15AR	TAPPING SCREW, STEEL	4
404	Allaria	. INT (NO OSEMI, C	7
	+		
 	+		
	-		
	+	-	
	1	SERVICE FIXTURES AND T	20018
	+	SERVICE I IA. S.I.E.	UULS
	VFMS0003H6	VHS ALIGNMENT TAPE	
	VFKS0003H6 VFKS0009	REEL TABLE HEIGHT FIXTURE	
		POST ADJUSTMENT PLATE	
	VFKS0010		
L	VFKS0081 VFK0329	POST ADJUSTMENT DRIVER	-
l	VFK0329 VFK1301	POST ADJUSTMENT DRIVER SILICON GREASE	
L	VFK1301 VFK27	SILICON GREASE HEAD CLEANING STICK	l
L	VFK27	HEAD CLEANING STICK HEAD CLEANING STICK	-
L	VFK0330	H-POSITION ADJUSTMENT DRIVER	
	VUZS0002	EXTENSION CABLE KIT	l
	VUVS0001	MODE SELECT SW ASS'Y	L
L	VUVS0002	EXTENSION CABLE -1	
<u> </u>	VUVS0003	EXTENSION CABLE -2	
	:	(FOR HI-FI MODEL)	
	VUVS0004	EXTENSION CABLE -2	
<u> </u>		(FOR 4 HEAD MODEL)	
	VUVS0005	EXTENSION CABLE -2	
	T	(FOR 2 HEAD MODEL)	
<u> </u>	VSCS2534	MAIN C.B.A. HOLDER	
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ELECTRICAL REPLACEMENT PARTS LIST

(E1, E6, E7, E10)

Ref. No.	Part No.	Part Name	Remarks	
		PRINTED CIRCUIT BOARD ASS	EMBLY	
E1	VEPS6040GA	MAIN C.B.A.	■ E.S.D. RTL	
	(A,B)			
E1	VEPS6040GB	MAIN C.B.A.	E.S.D. RTL	
	(C)			
E1	VEPS6043GA	MAIN C.B.A.	■ E.S.D. RTL	
F1	(D)	MALIN C. D. A	- 5 0 0 07	
E1	VEPS6040HA	MAIN C.B.A.	E.S.D. RTL	
E1	VEPS6040HF	MAIN C.B.A.	■ E.S.D. RTL	
L.1	(F)	MAIN C.D.A.	E. J. D. AIL	
El	VEPS6043HA	MAIN C.B.A.	■ E.S.D. RTL	
	(G)			
E10	VEPS0A55A	MAIN CHILD C.B.A.	▲ RTL	
E6	VEPS5011A	HEAD AMP C.B.A.	■ RTL	
	(A, B, C, D)			
E6	VEPS5010B	Hi-Fi AUDIO/VIDEO HEAD AMP	■ RTL	
		C. B. A.		
	(E,F,G)			
E7	VEPS0A25A	JUNCTION C.B.A.	■ RTL	
the section of the se		MAIN C.B.A.		
	ļ	(A,B,C,E,F)		
	-			
	-	INTEGRATED CITCHIA		
IC1001	PS2501-1-X	INTEGRATED CIRCUITS	A	
101001		IC. LINEAR ERROR V. DET	Δ_	
	OR 0N3131-S.KT	IC, LINEAR ERROR V. DET	<u>A</u>	
1C3001	AN3476FBP	IC, LINEAR VIDEO/AUDIO PROCESS	Δ	
IC3101	MN3885S	IC, CCD 1H DELAY	E. S. D.	
1C4201	AN3962FB-V	IC, LINEAR HI-FI AUDIO PROCESS		
101201	(E,F)	TOT EMENTING TABLES		
IC6001	MN101D01GPA2	IC, 8BIT MICROPROCESSOR	E. S. D.	
106002	CNA1801N	REEL SENSOR UNIT	2.0.0.	
106003	CNA1801N	REEL SENSOR UNIT		
106301	T47C216FF917	IC, 4BIT MICROCONTROLLER	E.S.D.	
		INDICATOR PANEL		
		TRANSISTORS		
Q1001	2SC4533LP, KT		Δ.	
	OR 2SC5130LF608		▲	
Q1002	2SD2259			
Q1003	2SD1819A(R, S)	CHIP		
Q1004	2SB709A	CHIP		
Q1005	2SB1218ARS	CHIP		
Q1051	2SD2159(T)			
	(A, B, C)			
	2SD2375 (P, Q)			
01052	(E,F)	CHIP		
Q1052 Q1053	2SD601A 2SD235800A	CHIP		
Q1053 Q1056	2SD235800A 2SD235800A	CHIP		
Q3001	2SB709A	CHIP		
Q4001	2SB1218ARS	CHIP		
Q4001 Q4002	2SD1819A(R, S)	CHIP		
Q4002 Q4003	2SD1819A(R, S)	CHIP		
Q4004	UN5115	CHIP		
Q4005	UN5215	CHIP		
	(E, F)			
Q4006	UN5215	CHIP		
Q4007	UN5215	CHIP		
	(E,F)			
Q4101	2SD601A	CHIP		
Q4601	2SD1819A(R, S)	CHIP		
	(E,F)			

Ref. No.	Part No.	Part Name	Remarks
Q6001	2SD1819A(R,S)	CHIP	
Q6002	2SB1218ARS	CHIP	
Q6003	2SD1819A(R,S)	CHIP	
Q6005	2SB709A	CHIP	
Q6006	2SD1819A(R,S)	CHIP	
Q6009	VEKS5522	PHOTO SENSOR UNIT	
Q6010	VEKS5522	PHOTO SENSOR UNIT	
		DIODES	
D1001	S1WBA40		Δ
	OR S1WBA60		Δ
D1002	ERA18-04V3		
D1003	ERA18-04V3		
D1005	ERA18-04V3	<u> </u>	
D1006	RU2YXLFC1		
	(A, B, C)		
	RU3YXLFC1		
	(E,F)		
D1007	MA188		
	(A, B, C)		
	ERA18-04V3		
	(E,F)		
D1008	ERB81-004V1		
D1009	MA178		
	(A, B, C)		
	AK03V0		
	(E,F)		
D1011	MA4051N	ZENER 5.1V	
D1012	MA858		
D1013	MA165		
D1015	MA7180	ZENER 18V	Δ
_,0.0	OR MA7180A-TR		Δ
	OR MA7180B-TR	ZENER 18V	
D1016	MA165		
D1018	MA4100N	ZENER 10V	
D1052	MA165	100	
D1052	MA165	<u> </u>	
D1053	ERA15-01V5		
D3004	MA4091-M	ZENER 9.1\	
	VEKS5521	SENSOR LED UNIT	
D6001	MA165	SERGON EED ON I	
D6002			
D6003	MA165		
D6007	MA165		
D6202	MA165		
D6203	MA165	77,450	
D6324	MA4068-M	ZENER 6.8	
		DESISTORS	
-	UDFOCOTIVO ZET	RESISTORS +10% 1/2₩ 2.7₩	A
R1001	VRESC2TK275T		
R1003	VRESE2TJ334	1/2W 330M	
R1004	ERG2SJW333E	METAL OXIDE 2W 33K	
R1005	ERG1SJW560E	METAL OXIDE 1W 56	
R1006	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R1007	ERDS2TJ101	100	
R1008	ERDS2TJ392	3.9k	
R1010	ERD25FYJ100T		Δ
R1011	ERD25FYJ100T	10	Δ
	(A, B, C)		
	ERD25FYJ4R7T	4.7	Δ
	(E,F)		
R1014	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R1015	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R1016	ERJ8GEYJ562V	MGF CHIP 1/8W 5.6K	
R1017	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R1018	ERJ6GEYJ183V	MGF CHIP 1/10W 18K	
R1019	ERJ6GEYJ392V	MGF CHIP 1/10W 3.9k	
R1020	ERJ6GEYJ682V	MGF CHIP 1/10W 6.8K	
R1022	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R1024	ERD2FCVG121T		Δ
	(A, B, C)	-	
	ERD2FCVG330T	+2% 33	Δ
	(E,F)	+, 33	landard
D1025	VRESE2TJ150	1/2W 15	
R1025	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R1051	ENJOUETJ4/2V	mor one 1/10# 4./K	
			-
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	Part No.	Part Name		Remairks
R1052	ERDS2TJ123		12K	
	(A,B,C)			
	ERDS2TJ153		15K	
	(E,F)			
R1053	ERDS2TJ153		15K	
	(E,F)			
R1057	ERDS2TJ331		330	
R1058	ERDS2TJ104		100K	
R1066	ERDS2TJ182		1.8K	
R1067	ERDS2TJ104		100K	
R1068	ERDS2T0	MOE OWN		•
R3002	ERJ6GEYJ331V		/10W 330	
R3003 R3004	ERJ6GEYJ101V ERJ6GEYJ750V		/10W 100 /10W 75	
R3005	ERDS2TJ101	MOF CHIF	100	
R3021	ERJ6GEYJ332V	MGF CHIP 1	/10W 3.3K	
R3022	ERJ6GEYJ332V		/10W 3.3K	
R3023	ERJ6GEYJ121V		/10W 120	
R3027	ERJ6GEYJ681V		/10W 680	
R3029	ERJ6GEYJ125V		/10W 1.2M	
R3030	ERJ6GEYJ103V	MGF CHIP	/10W 10K	
R3031	ERJ6GEYJ474V	MGF CHIP 1	/10W 470K	
R3033	ERJ6GEYJ392V	MGF CHIP	/10W 3.9K	
R3034	ERJ6GEYJ121V		/10W 120	
R3035	ERJ6GEYJ103V		/10W 10K	
R3036	ERJ6GEYJ122V		1/10W 1.2K	
R3041	ERJ6GEYJ750V		1/10W 75	
R3301	ERJ6GEYJ102V		1/10W 1K	
R3302	ERJ6GEYJ222V		1/10W 2.2K	
R4001	ERJ6GEYJ103V		1/10W 10K	
R4002	ERJ6GEYJ334V ERJ6GEYJ221V		1/10W 330K	
R4003 R4004	ERJ6GEYJ333V		1/10W 220 1/10W 33K	
R4005	ERJ6GEYJ225V		1/10W 2.2N	
R4006	ERJ6GEYJ681V		1/10W 680	
R4007	ERJ6GEYJ821V		1/10W 820	
R4008	ERJ6GEYJ223V		1/10W 22K	
R4009	ERJ6GEYJ473V		1/10W 47K	
	(A, B, C)			
R4010	ERJ6GEYJ473V	MGF CHIP	1/10W 47K	
	(A, B, C)			
	ERJ6GEYJ123V	MGF CHIP	1/10W 12K	
	(E,F)			
R4011	ERJ6GEYJ562V	MGF CHIP	1/10W 5.6K	
	(A, B, C)			
	ERJ6GEYJ682V	MGF CHIP	1/10W 6.8K	
	(E,F)			
R4012	ERJ6GEYJ682V		1/10W 6.8K	
R4013	ERJ6GEYJ331V	MGF CHIP	1/10W 330	
R4014	(A, B, C) ERJ6GEYJ472V	MGF CHIP	1/10W 4.7K	
R4015	ERJ6GEYJ222V		1/10W 2.2K	
R4016	ERJ6GEYJ471V		1/10W 470	
114010	(A, B, C)	mor orri	1/1011 4/0	
	ERJ6GEY0R00V	MGF CHIP	1/10W 0	•
	(E,F)		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
R4017	ERJ6GEYJ101V	MGF CHIP	1/10W 100	
	(A, B, C)			
	ERJ6GEYJ102V	MGF CHIP	1/10W 1K	
	(E,F)	v v		
R4018	ERJ6GEYJ332V	MGF CHIP	1/10W 3.3K	
	(A, B, C)			
R4027	ERJ6GEY0R00V			•
R4028	ERJ6GEYJ472V		1/10W 4.7K	
R4101	ERJ6GEYJ184V		1/10W 180K	
R4102	ERJ6GEYJ393V		1/10W 39K	
R4103	ERJ6GEYJ153V		1/10W 15K	
R4201	ERJ6GEYJ472V	MGF CHIP	1/10W 4.7K	
D4202	(E,F)	NCE CHID	1/10# 4 7"	
R4202	ERJ6GEYJ472V	MGF CHIP	1/10W 4.7K	
D4202	(E,F)	MCE CHIP	/10W 510	1
R4203	(E,F)	MGF CHIP	I/10W 510	
R4204	ERJ6GEYJ511V	MGF CHIP	1/10W 510	
	(E,F)	HO VIIII	., 510	
		_1		
R4205		MGF CHIP	1/10W 33K	
	ERJ6GEYJ333V	MGF CHIP	1/10W 33K	
		MGF CHIP	1/10W 33K	

	T .	Т		
Ref. No.	Part No.	P	art Name	Remarks
R4206	ERJ6GEYJ333V	MGF CHIP	1/10W 33K	
R4207	(E,F) ERJ6GEYJ153V	MGF CHIP	1/10W 15K	
H4207	(E,F)	wici citir	1/10# 15K	
R4208	ERJ6GEYJ153V	MGF CHIP	1/10W 15K	
D4012	(E,F)	MGF CHIP	1/10W 33K	
R4213	(E,F)	MOF CHIF	1/10W 33K	
R4214	ERJ6GEYJ333V	MGF CHIP	1/10W 33K	
DAOIE	(E,F)	MGF CHIP	1/10# 15#	
R4215	(E,F)	MOF CHIP	1/10W 15K	
R4216	ERJ6GEYJ153V	MGF CHIP	1/10W 15K	
D4017	(E,F)	MCE CHIE	1/10W 1K	
R4217	(E, F)	MGF CHIP	1/10W 1K	
R4218	ERJ6GEYJ102V	MGF CHIP	1/10W 1K	
D4010	(E,F)	MCE CUID	1/10W COV	
R4219	(E,F)	MGF CHIP	1/10W 68K	
R4220	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
D400*	(E,F)	MCE CHID	1/100 100	
R4221	(E,F)	MGF CHIP	1/10W 100	
R4222	ERJ6GEYJ101V	MGF CHIP	1/10W 100	
D4240	(E,F)	MGF CHIP	1/10W 0	
R4240	(E,F)	MOT UNIT	1/10W 0	
R4241	ERA6YEB153V	MGF CHIP -	-0.1% 1/10 W 15K	
D4242	(E,F)		1.5K	
R4243	(E,F)	-	1.3k	
R4244	ERJ6GEYJ152V	MGF CHIP	1/10W 1.5K	
04040	(E,F)	MCE CHIP	1/10₩ 22₽	
R4246	(E,F)	MGF CHIP	1/10W 33K	
R4247	ERJ6GEYJ123V	MGF CHIP	1/10W 12K	
R4248	(E,F) ERJ6GEY0R00V	MGF CHIP	1/10W 0	
H4240	(E,F)	MOS CITIF	1/1011	
R4249	ERJ6GEYJ102V	MGF CHIP	1/10W 1K	
DACO1	(E,F) ERJ6GEYJ123V	MGF CHIP	1/10W 12K	
R4601	(E,F)	MOI CITI	17 1011 121	
R4602	ERJ6GEYJ472V	MGF CHIP	1/10W 4.7K	
	(A, B, C) ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
	(E,F)	Marca Contra	171011 1010	
R4604	ERJ6GEYJ561V	MGF CHIP	1/10W 560	
R4605	(E,F) ERJ6GEYJ562V	MGF CHIP	1/10W 5.6K	
,17000	(E,F)			
R4606	ERJ6GEYJ682V	MGF CHIP	1/10W 6.8K	
R4607	(E,F) ERJ6GEYJ101V	MGF CHIP	1/10W 100	·
.1400/	(E,F)		.,	
R4608	ERJ6GEYJ102V	MGF CHIP	1/10W 1K	
R6001	(A, B, C) ERDS2TJ101	-	100	
R6004	ERJ6GEYJ333V	MGF CHIP	1/10W 33K	
	(E,F)	NOT OUT	4 /4 8 14 8 14 14	
R6005	(E,F)	MGF CHIP	1/10W 22K	
R6006	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R6008	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R6009	(E,F) ERJ6GEYJ102V	MGF CHIP	1/10W 1K	
HOUUS	(E,F)	Jaco 3111	17 1011 11	
R6010	ERJ6GEYJ182V	MGF CHIP	1/10W 1.8K	
R6012	ERJ6GEYJ102V ERJ6GEYJ243V	MGF CHIP	1/10W 1K 1/10W 24K	
R6016 R6019	ERJ6GEYJ221V	MGF CHIP	1/10W 220	
R6020	ERJ6GEYJ221V	MGF CHIP	1/10W 220	
R6022	ERJ6GEYJ333V	MGF CHIP	1/10W 33K 1/10W 5.6K	
R6023	ERJ6GEYJ562V ERJ6GEYJ562V	MGF CHIP	1/10W 5.6K	
R6025	ERJ6GEYJ332V	MGF CHIP	1/10W 3.3K	
R6026	ERJ6GEYJ101V	MGF CHIP	1/10W 100	
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Ref. No.	Part No.	F	Part Name	Remarks
R6027	ERJ6GEYJ101V	MGF CHIP	1/10W 100	
R6029	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
DCD21	(E,F)	HCE CHIP	1/10W 56K	
R6031	ERJ6GEYJ563V ERDS2TJ681	MGF CHIP	1/10W 56K	
R6034	ERJ6GEYJ563V	MGF CHIP	1/10W 56K	
R6035	ERJ6GEYJ101V	MGF CHIP	1/10W 100	
R6037	ERNS2TJ391	I	390	
R6038	ERDS2TJ560		56	
R6039 R6051	ERJ6GEYJ101V ERJ6GEYJ472V	MGF CHIP	1/10W 100 1/10W 4.7K	
R6052	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R6053	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R6056	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R6057	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R6058	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R6059	ERJ6GEYJ472V	MGF CHIP	1/10W 4.7K	
R6062	ERJ6GEYJ475V ERJ6GEYJ224V	MGF CHIP	1/10W 4.7M 1/10W 220K	
R6063	ERJ6GEYJ153V	MGF CHIP	1/10W 15K	
R6064	ERJ6GEYJ153V	MGF CHIP	1/10W 15K	
R6065	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R6066	ERJ6GEYJ473V	MGF CHIP	1/10W 47K	
R6068	ERJ6GEYJ472V	MGF CHIP	1/10W 4.7K	
R6069	ERJ6GEYJ104V	MGF CHIP	1/10W 100K	
R6070 R6072	ERJ6GEYJ104V	MGF CHIP	1/10W 100K	
R6073	ERJ6GEYJ102V ERJ6GEYJ473V	MGF CHIP	1/10W 1K	
R6074	ERDS2TJ272	MOI CITT	2.7K	
R6075	ERJ6GEYJ223V	MGF CHIP	1/10W 22K	
R6076	ERJ6GEYJ102V	MGF CHIP	1/10W 1K	
R6077	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R6078	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R6079 R6080	ERJ6GEYJ102V ERJ6GEYJ103V	MGF CHIP	1/10W 1K 1/10W 10K	
R6081	ERJ6GEYJ104V	MGF CHIP	1/10W 10K	
R6082	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R6083	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R6085	ERJ6GEYJ223V	MGF CHIP	1/10W 22K	
R6086	ERJ6GEYJ223V	MGF CHIP	1/10W 22K	
R6087	ERJ6GEYJ223V ERJ6GEYJ102V	MGF CHIP	1/10W 22K	
R6089 R6103	ERJ6GEYJ102V ERJ6GEYJ472V	MGF CHIP	1/10W 1K 1/10W 4.7K	
R6109	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R6110	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R6111	ERJ6GEYJ223V	NGF CHIP	1/10W 22K	
	(E, F)			
R6112	ERJ6GEYJ223V	MGF CHIP	1/10W 22K	
20001	(E,F)		201	
R6201 R6202	EVNGBAA01B24 ERJ6GEYJ274V	WARIABLE	20K 1/10W 270K	
R6203	ERJ6GEYJ103V	MGF CHIP	1/10W 2/0K	
R6204	ERJ6GEYJ184V	MGF CHIP	1/10W 180K	
R6205	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R6224	ERJ6GEYJ472V	MGF CHIP	1/10W 4.7K	
R6228	ERJ6GEYJ152V	MGF CHIP	1/10W 1.5K	
R6230	ERJ6GEYJ222V	MGF CHIP	1/10W 2.2K	
R6316 R6346	ERJ6GEYJ101V ERDS2TJ470	MGF CHIP	1/10W 100 47	
R6350	ERDS2TJ820		82	
R6351	ERDS2TJ750	+	75	
	(A, B, C)	T		
	ERDS2TJ820		82	
	(E,F)	1		
R6352	ERDS2TJ750	+	75	
	(A, B, C) ERDS2TJ101	+	100	
	(E,F)	-	100	
R6353	ERJ6GEYJ473V	MGF CHIP	1/10W 47K	······
R6358	ERJ6GEYJ223V	MGF CHIP	1/10W 22K	
R6359	VLQSH02R101K		100	
R7001	ERJ6GEYJ473V	MGF CHIP	1/10W 47K	
	(A, B, C)			
R7002	ERJ6GEYJ271V	MGF CHIP	1/10W 270	
R7004 R7006	ERJ6GEYJ103V ERJ6GEYJ102V	MGF CHIP	1/10W 10K 1/10W 1K	
R7007	EVNGBAA01B24	VARIABLE	20K	
n/ou/	(E,F)	TANTALL	201	
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Ref. No.	Part No.	Part Name	Remarks	
		CARACITORS		
4004		CAPACITORS CERANIC +80%-20%	125V 0.01	<u> </u>
1001	OR ECKNTS1032VD		125V 0.01	
	OR VCKSTQG103ZY			
	OR VCKSUQD103MY		125V 0.01	
1002			125V 3300P	
31002	OR ECKNTS332ME8		125V 3300P	
	OR VCKSTQG332MX		125V 3300P	
	OR VCKSUQD332MX		125V 3300P	Δ
21003			125V 3300P	
31003	OR ECKNTS332ME8		125V 3300P	
	OR VCKSTQG332MX		125V 3300P	Δ
	OR VCKSUQD332MX		125V 3300P	
21004				Δ
C1004	OR VCESR2D820XB			Δ
	(A, B, C)	ELLOTTOLITTO	2001 02	
		ELECTROLYTIC	200V 120	A
	OR VCESR2D121XB		200V 120	
	(E,F)	ELECTIONITIE	2007 120	-
01005		ELECTROLYTIC	200V 4.7	
C1005	ECA2DHG4R7B ECKW2H221KB5	CERAMIC	500V 220P	
C1006	VCKSLZE224MB	CERAMIC +-20%	25V 0.22	
C1007		POLYESTER +5%	50V 0.018	
C1009	ECQB1H183JF	C CHIP +5%	50V 0.018	
C1010	ECUV1H101 JCM			
C1011	ECA1HM4R7B	ELECTROLYTIC	50V 4.7	
	(A,B,C)	ELECTROL VILC	50V 4.7	
	ECEA1HGE4R7	ELECTROLYTIC	JUV 4./	
212/2	(E,F)	ELECTROL VILO	101/ 200	
C1012	ECEA1PEE331	ELECTROLYTIC	18V 330	
C1013	ECA1EM331B	ELECTROLYTIC	25V 330	
C1014	ECEA1HGE4R7	ELECTROLYTIC	50V 4.7	
	(A, B, C)			
	ECEA1HGE470	ELECTROLYTIC	50V 47	
	(E,F)			
C1016	ECEA1PEE331	ELECTROLYTIC	18V 330	
C1017	ECAOJM102B	ELECTROLYTIC	6.3V 1000	
C1018	VCYSBRC104MX	CERAMIC +-20%	16V 0.1	
C1019	ECEA0JEE101	ELECTROLYTIC	6.3V 100	
C1021	ECEA1HKG010	ELECTROLYTIC	50V 1	
C1023	ECKW1H103ZF5	CERANIC +80%-20%		
C1025	ECKNRS101 MBY	CERAMIC +-20%	125V 100F	
	OR ECKNTS101MB	CERANIC +20%	125V 100F	Δ.
	OR VCKSTNG101KW	CERANIC	125V 100F	Δ.
	OR VCKSUND101KW	CERANIC	125V 100F	Δ.
C1027	ECKNRS103ZVD	CERAMIC +80%-20%	125V 0.01	⚠
	OR ECKNTS103MF8	CERAMIC +20%	125V 0.01	Δ
	OR VCKSTQG103ZY	CERAMIC +80%-20%	125V 0.01	\triangle
	OR VCKSUQD103MY	CERAMIC +-20%	125V 0:.01	\triangle
C1028	ECEA1PEE331	ELECTROLYTIC	18V 330	
C1029	ECUV1H101JCN	C CHIP +-5%	50V 100F	
C1030	VCYSBRE183KX	CERAMIC	25V 0.018	3
C1032	ECEA0JKA221	ELECTROLYTIC	6.3V 220	
C1051	ECEA1HKAR47	ELECTROLYTIC	50V 0.47	7
C1052	ECEA1CKA100	ELECTROLYTIC	16V 10	
C1052	ECEA0JEE101	ELECTROLYTIC	6.3V 100	
C1059	ECEATCKA470	ELECTROLYTIC	16V 4	
C1059	ECUV1H102KBN	C CHIP	50V 10008	
C3001	ECA0JM471	ELECTROLYTIC	6.3V 470	+
C3002	ECUVIE104ZFN	C CHIP +80%-20%		
	ECUVIHIO3KBN	C CHIP 4607-207	50V 0.0	
C3011	ECUVIE104ZFN	C CHIP +80%-20%		
C3014	ECUVIE 104ZFN	C CHIP +80%-20%		-
C3015	ECEA1EKA4R7	ELECTROLYTIC	25V 4.	
C3017	ECUVIH181JCN	C CHIP +5%	50V 180	
C3018		C CHIP +5%	50V 56I	
C3019	ECUV1H560JCN			
C3021	ECUVIC224ZFN	C CHIP +80%-20% C CHIP +80%-20%		
C3022	ECUVIE 104ZFN			
C3023	ECEAOJKA221	ELECTROLYTIC	6. 3V 22	
C3024	ECEAOJKA470	ELECTROLYTIC	6.3V 4	
C3025	ECUV1H103ZFN	C CHIP +80%-20%		
C3026	ECUV1E104ZFN	C CHIP +80%-20%		
C3027	ECUV1C224ZFN	C CHIP +80%-20%		
C3028	ECEA1CKA100	ELECTROLYTIC	16V 10	
C3029	ECUV1E104ZFN	C CHIP +80%-20%		
C3030	ECEA0JKA221	ELECTROLYTIC	6.3V 22	
C3031	ECEA1HKA2R2	ELECTROLYTIC	50V 2.	
	ECEA1HKA2R2	ELECTROLYTIC	50V 2.3	2
C3032	ECEATHORETE			

Ref. No.	Part No.	Part Name	Remarks
3033	ECEA0JKA470	ELECTROLYTIC 6.3V 47	
3034	ECEA1HKAR22	ELECTROLYTIC 50V 0.22	
23035	ECUV1H560JCN	C CHIP +-5% 50V 56P	
3036	ECUVIEIO4ZFN	C CHIP +80%-20% 25V 0.1	
3037	ECEA0JKA220 ECUV1H822KBN	C CHIP 50V 8200P	
23043	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.01	
3044	ECUV1C474ZFN	C CHIP +80%-20% 16V 0.47	
3045	ECUV1C474ZFN	C CHIP +80%-20% 16V 0.47	
3047	ECUV1H181JCN	C CHIP +-5% 50V 180P	
23048	ECUV1H560JCN	C CHIP +-5% 50V 56P	
23049	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	
C3050	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	
C3051	ECEA0JKA221	ELECTROLYTIC 6.3V 220	
03052	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.01	
23053	ECEA1HKAR47	ELECTROLYTIC 50V 0.47	
C3054	ECEA1HKA2R2	ELECTROLYTIC 50V 2.2	
C3055	ECUV1H392KBN	C CHIP 50V 3900P	
C3056	ECEA1HKA010	ELECTROLYTIC 50V 1	
C3057	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	
C3058	ECEA0JKA221	ELECTROLYTIC 6.3V 220	
C3059	ECUV1H020CCN	C CHIP +-0.25P 50V 2P	
02002	(E,F)	C CHIP +80%-20% 25V 0.1	
C3062 C3101	ECEA1HKA010	ELECTROLYTIC 50V 1	
C3102	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	
C3102	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.01	
C3105	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.01	
C3106	ECUV1H103ZFN	C CHIP +80%-20% 50V Q. 01	
C3108	ECUV1H102KBN	C CHIP 50V 1000P	
C3109	ECEA0JKA221	ELECTROLYTIC 6.3V 220	
C3302	ECEA1HKA010	ELECTROLYTIC 50V 1	
C3303	ECUV1H390JCN	C CHIP +-5% 50V 39P	
C3304	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	
C3306	ECEA1HKN010	ELECTROLYTIC 50V 1	
C3312	ECUV1H100CCN	C CHIP +0.25P 50V 10P	
C4001	ECUV1C224ZFN	C CHIP +80%-20% 16V 0.22	
C4002	ECEA1HKA010	ELECTROLYTIC 50V 1	
C4003	ECUV1H392KBN	C CHIP 50V 3900P	
C4004	ECUV1H103KBN	C CHIP 50V 0.01	
C4005	ECEAOJKA220	ELECTROLYTIC 6.3V 22 C CHIP 50V 1000P	
C4006	ECUV1H102KBN		
C4007	ECEAOJKA220 ECEAOJKA470	ELECTROLYTIC 6.3V 22 ELECTROLYTIC 6.3V 47	
C4008	ECEA1CKA100	ELECTROLYTIC 16V 10	
C4009	ECUV1E273KBN	C CHIP 25V 0.027	
C4011	ECUV1H822KBN	C CHIP 50V 8200P	
C4012	ECEA1HKA010	ELECTROLYTIC 50V 1	
C4013	ECEA0JKA470	ELECTROLYTIC 6.3V 47	
C4014	ECEA1HKA010	ELECTROLYTIC 50V 1	
C4017	ECUV1H103KBN	C CHIP 50V 0.01	
	(E,F)		
C4018	ECEA1HKA010	ELECTROLYTIC 50V 1	
	(A, B, C)		
C4020	ECUV1H102KBN	C CHIP 50V 1000P	
C4101	ECUV1H221JCN	C CHIP +5% 50V 220P	
C4102	ECQB1562JF	POLYESTER +-5% 200V 5600P	
C4103	ECUV1H103KBN	C CHIP 50V 0.01	
C4104	ECUV1H103KBN	C CHIP 50V 0.01	
C4106	ECEA1CKA220	ELECTROLYTIC 16V 22	
C4201	ECUV1E473KBN	C CHIP 25V 0.047	
C4202	(E,F)	C CHIP 25V 0.047	
C4202	ECUV1E473KBN	C CHIP 25V 0.047	
C4203	(E,F) ECEA0JKA330	ELECTROLYTIC 6.3V 33	
07203	(E, F)	0.01 33	
C4204	ECEAOUKA330	ELECTROLYTIC 6.3V 33	
47204	(E,F)	5.01 33	
C4205	ECEA1HKA2R2	ELECTROLYTIC 50V 2.2	
3,200	(E,F)		
C4206	ECEA1HKA2R2	ELECTROLYTIC 50V 2.2	
	(E,F)		
C4207	ECEA0JKA101	ELECTROLYTIC 6.3V 100	
	(E,F)		
C4208	ECEA0JKA101	ELECTROLYTIC 6.3V 100	
	(E,F)		
C4209	ECUV1H153KBN	C CHIP 50V 0.015	
	(E,F)		

Ref. No.	Part No.	Part Name	Remarks
C4210	ECUV1H153KBN	C CHIP 50V 0.015	
C4211	(E,F) ECUV1H103KBN	C CHIP 50V 0.01	
	(E,F)		
C4212	(E,F)	C CHIP 50V 0.01	
C4213	ECEA1HKA010	ELECTROLYTIC 50V 1	
C4214	(E,F) ECEA1HKA010	ELECTROLYTIC 50V 1	
C4217	(E,F) ECEA1HKA010	ELECTROLYTIC 50V 1	
C4217	(E,F)		
C4218	ECEA1HKA010	ELECTROLYTIC 50V 1	
C4219	ECEA1CKA100	ELECTROLYTIC 16V 10	
C4220	(E,F) ECEA1CKA100	ELECTROLYTIC 16V 10	
04000	(E,F)	ELECTROLYTIC 6.3V 47	
C4229	(E,F)	ELECTROLYTIC 6.3V 47	
C4235	ECEA1CKA100	ELECTROLYTIC 16V 10	
C4236	ECEAOJKA470	ELECTROLYTIC 6.3V 47	
C4237	(E,F) ECEA1CKA100	ELECTROLYTIC 16V 10	
	(E,F)		
C4238	(E,F)	ELECTROLYTIC 16V 10	
C4239	ECEA1HKA010	ELECTROLYTIC 50V 1	·
C4240	(E,F) ECUV1C224ZFN	C CHIP +80%-20% 16V 0.22	
	(E,F)	C CUID . DON 2014 EOV O O O	
C4242	(E,F)	C CHIP +80%-20% 50V 0.01	
C4601	ECUV1C224ZFN	C CHIP +80%-20% 16V 0.22	
C4603	ECUV1C224ZFN	C CHIP +80%-20% 16V 0.22	
C4606	ECUV1C224ZFN	C CHIP +80%-20% 16V 0.22	
C6003	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	
C6005 C6006	ECUV1H150JCN ECUV1H120JCN	C CHIP +-5% 50V 15P C CHIP +-5% 50V 12P	
C6012	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	
C6016	ECEA0JU471 ECUV1H101JCN	ELECTROLYTIC 6.3V 470 C CHIP +5% 50V 100P	
C6019	ECEAOJKA101	ELECTROLYTIC 6.3V 100 C CHIP +5% 50V 100P	
C6025 C6026	ECUV1H101JCN ECUV1H102KBN	C CHIP +5% 50V 100P C CHIP 50V 1000P	
C6201	ECUV1H102KBN	C CHIP 50V 1000P	
C6203 C6207	ECUV1H103KBN ECUV1E104ZFN	C CHIP 50V 0.01	
C6208	ECEA1HKA010	ELECTROLYTIC 50V 1	
C6213	ECUV1H151KN ECUV1H102KBN	C CHIP 50V 150P C CHIP 50V 1000P	
C6217	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	
C6218 C6221	ECEA1CKA100 ECEA0JKA220	ELECTROLYTIC 16V 10 ELECTROLYTIC 6.3V 22	
C6222	ECUV1H272KBN	C CHIP 50V 2700P	
C6223 C6224	ECEA0JKA101	C CHIP 50V 0.01 ELECTROLYTIC 6.3V 100	<u> </u>
C6228	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	
C6305	ECAOJKA470 ECAOJM471	ELECTROLYTIC 6.3V 47 ELECTROLYTIC 6.3V 470	
C6307	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	
C6308	ECUV1H103ZFN ECEA0JKA221	C CHIP +80%-20% 50V 0.01 ELECTROLYTIC 6.3V 220	
C7003	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.01	
C7005	(A, B, C)	C CHIP 25V 0.018	
C7006	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.01	
C7007 C7008	ECUV1E104KBN ECEA1CKA101	C CHIP	
C7010	ECUV1H102KBN	C CHIP 50V 1000P	
C7011 C7015	ECUV1H820JCN ECEA1CKA100	C CHIP ←5% 50V 82P ELECTROLYTIC 16V 10	,
C7018	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.01	
C7019 C7020	ECUV1H103ZFN ECUV1H103ZFN	C CHIP +80%-20% 50V 0.01 C CHIP +80%-20% 50V 0.01	
		1	

Ref. No.	Part No.	Part Nam	•		Remarks
C7022	ECUV1H330JCN	C CHIP +-5%	50V	33P	
C7023	ECUV1H330JCN	C CHIP +-5%	50V	33P	
C7024	ECUV1H103KBN	C CHIP	50V	0.01	
		COILS			
L1001	ELF15N005AB	LINE FILTER	0.5A	18M	Δ
	OR VLQS0166	LINE FILTER	0.5A	18M	Δ
	OR VLQS0167	LINE FILTER	0.5A	18M	
L1002	VLQSAB7D220K	<u> </u>	*****	22	
L1003	VLQSAB7D100K			10	
L1006	VLPS0083				
L3014	VLQSH02R390K			39	
L3016	ELESN330KA	· · · · · · · · · · · · · · · · · · ·		33	
L3018	ELESN470KA		~~~~	47	
L3010	ELESN101KA			100	
				154	, · · · · · · · · · · · · · · · · · · ·
L7001	ELELN153KA VLQSAC3R120J				
				12	
L7002	VLQSAC3R101J			100	
		ADVATA TEST	76-		
	lugues e :	CRYSTAL OSCILLA	TOR		
X3010	VSXS0195				·
X6001	VSXS0232-TB				
X6301	EF0EC8004T4				
		PIN HEADERS			
P1001	VJPS1154	CONNECTOR 2P			
P3001	VJPS0884	CONNECTOR 15P			
	(A,B,C)				
	VJPS0885	CONNECTOR 20P			
	(E,F)				
P4001	VJSS0888	FE CONNECTOR 2P			
P6002	VJPS0881	CONNECTOR 8P			
P6201	VJPS0883	CONNECTOR 14P			
	1				
	 	SWITCHES			
SW6001	VSHS0058	LEAF SWITCH-SAFETY	TAR		
SW6001	VSSS0159	MODE SELECT SWITCH	1140		<u> </u>
SW6301	EVQ21309K	PUSH SWITCH			
SW6301 SW6303	EVQ21309K	PUSH SWITCH			
SW6305	EVQ21309K EVQ21309K	PUSH SWITCH PUSH SWITCH			·
SW6306 SW6308	-	PUSH SWITCH			
	EVQ21309K				
SW6310	EVQ21309K	PUSH SWITCH			
SW6311	EVQ21309K	PUSH SWITCH			
SW6312	EVQ21309K	PUSH SWITCH			
SW6313	EVQ21309K	PUSH SWITCH			<u> </u>
SW7001	VSSS0152	SELECT SWITCH			
					·
		FUSE & PROTECT			
F1001	VSFS0003A16	FUSE	1257	1.6A	
	OR VSFS0028A16	FUSE	125V	1.6A	
	OR VSFS0030B16	FUSE	125V	1.6A	
	OR XBA1C16NU100	FUSE	125V	1.6A	Δ
PR1001	ICP-N38-TP1	IC PROTECTOR		1.5A	Δ
	OR UNHOOOGOOA	IC PROTECTOR		1.5A	Δ
PR1002	ICP-N38-TP1	IC PROTECTOR		1.5A	
	OR UNHOOGGOOA	IC PROTECTOR		1.5A	
	1				
	1				
		TRANSFORMER			
T1001	ETS28AD2J3NP				Δ
. , , , ,	OR VTPS0041-1				Δ
	OR VTPS0041-1	· · · · · · · · · · · · · · · · · · ·			Δ
T4101	E1Q7QF018Q				-
14101	EIQ/QFUIOQ				
	1				
	 	IACKE			· · · · · · · · · · · · · · · · · · ·
WOOC:	V 11/07/02	JACKS			
JK3001	VJHS0720	A/V JACK SOCKET			
	(A, B, C)				
	VJHS0727	A/V JACK SOCKET			
					I
	(E, F)				
	(E, F)				
	(E,F)				
	(E,F)				

Ref. No.	Part No.	Part Name	Remarks
		PRINTED CIRCUIT BOARD ASS	EMBLY
10	VEPS0A55A	MAIN CHILD C.B.A.	<u> </u>
	1		
	<u> </u>	MISCELLANEOUS	
21		TUNER, UHF/VHF NR	
23		PUSE HOLDER	
25		DISPLAY TUBE/INFRARED RECEIVER	
		UNIT	
26		IC. HYBRID MTS/SAP AUDIO	
		PROCESS	
	(E,F)		
		MAINORA	
		MAIN C.B.A.	
		(D,G)	
,			
		INTEGRATED CIRCUITS	
C1001	PS2501-1-X	IC, LINEAR ERROR V. DET	Δ
	OR 0N3131-R.KT	IC, LINEAR ERROR V. DET	Δ
	OR ON3131-S. KT	IC, LINEAR ERROR V. DET	Δ
C3001	AN3476FBP	IC, LINEAR VIDEO/AUDIO PROCESS	
C3101	MN3885S	IC, CCD 1H DELAY	E.S.D.
C4201	AN3962FB-V	IC, LINEAR HI-FI AUDIO PROCESS	
	(G)		
C6001	MN101D01FPB1	IC, 8BIT MICROPROCESSOR	E.S.D.
C6002	CNA1801N	REEL SENSOR UNIT	
C6003	CNA1801N	REEL SENSOR UNIT	
			I .
	-	TRANSISTORS	İ
21001	2SC4533LP. KT		Δ
1.001	OR 2SC5130LF608		Δ
11002	2SD2259		
21002	2SD2259 2SD1819A (R, S)	CHIP	<u> </u>
21003		CHIP	
1004	2SB709A		-
21005	2SB1218ARS	CHIP	
21051	2SD2159 (T)		
	(D)		
	2SD2375 (P, Q)		
	(G)	Sup.	
Q1052	2SD601A	CHIP	
Q1053	2SD235800A	CHIP	
Q1056	2SD235800A	CHIP	
Q3001	2SB709A	CHIP	
Q4001	2SB1218ARS	CHIP	
Q4002	2SD1819A (R, S)	CHIP	ļ <u>.</u>
24003	2SD1819A (R, S)	CHIP	
Q4004	UN5115	CHIP	
Q4005	UN5215	CHIP	
	(G)		
Q4006	UN5215	CHIP	
24007	UN5215	CHIP	
	(G)		
Q4101	2SD601A	CHIP	
04601	2SD1819A (R, S)	CHIP	
4 1001	(G)		
Q6001	2SD1819A (R, S)	CHIP	1
	2SB1218ARS	CHIP	
Q6002	2SB1218AHS 2SD1819A (R, S)	CHIP	
Q6003			· · · · · · · · · · · · · · · · · · ·
Q6005	2SB709A	CHIP	
Q6006	2SD1819A (R, S)	CHIP	-
Q6009	VEKS5522	PHOTO SENSOR UNIT	
Q6010	VEKS5522	PHOTO SENSOR UNIT	
Q6301	2SD601A	CHIP	
Q6302	2SD601A	CHIP	ļ
Q6303	2SD601A	CHIP	
Q6304	2SD601A	CHIP	
	(G)		
Q6390	2SD601A	CHIP	
7000	(G)		
	1		1
		 	
	1		
			1

Ref. No.	Part No.	Part Name	Remarks
		DIODES	
D1001	S1WBA40	DIODES	Δ
3,001	OR S1WBA60		Δ
D1002	ERA18-04V3		
D1003	ERA18-04V3		
D1005	ERA18-04V3		
D1006	RU2YXLFC1		
	(D)		
	RU3YXLFC1	1	
	(G)		
D1007	MA188		
	(D)		
	ERA18-04V3		
D1008	ERB81-004V1		
D1008	MA4051N	ZENER 5.1	v
D1012	MA858	ALCOHOL STATE OF THE STATE OF T	
D1013	MA165		
D1015	MA7180	ZENER 18	VΔ
	OR MA7180A-TR	ZENER 18	v 🛦
	OR MA7180B-TR	ZENER 18	v 🛆
D1016	MA165		
D1051	MA4100N	ZENER 10	V
D1052	MA165		
D1053	MA165		1
D1056	ERA15-01V5		
D3004	MA4091-M	ZENER 9.1	V
D6001	VEKS5521	SENSOR LED UNIT	
D6002	MA165		
D6003	MA165		
D6007 D6202	MA165		1
D6202	MA165		
D6301	MA165		
D6302	MA165		
D6303	SLP913C81HAB	LED RED	
D6304	SLP913C81HAB	LED RED	
D6305	SLP313C81HAB	LED GREEN	
D6306	SLP313C81HAB	LED GREEN	
D6330	SLP313C81HAB	LED GREEN	
	(G)		
D6331	SLP913C81HAB	LED RED	
*****	(G)	LED COCEN	
D6332	SLP313C81HAB	LED GREEN	
	(G)		
		RESISTORS	
R1001	VRESC2TK275T	+10% 1/2W 2.	7M A
R1003	VRESE2TJ334	1/2W 33	
R1004	ERG2SJW333E		3K
R1005	ERG1SJW560E		56
R1006	ERJ6GEYJ222V	MGF CHIP 1/10W 2.	
R1007	ERDS2TJ101	A STATE OF THE STA	00
R1008	ERDS2TJ392	3.	
R1010	ERD25FYJ100T		10 🛕
R1011	ERD25FYJ100T	<u> </u>	10 🛕
	(D)	-	- 4
	ER025FYJ4R7T	4	.7 🛆
Dane :	(G)	HOT OUR 1/10"	20
R1014	ERJ6GEYJ221V		20
R1015	ERJ6GEYJ221V	MGF CHIP 1/10W 2 MGF CHIP 1/8W 5.	20
R1016	ERJ8GEYJ562V ERJ6GEYJ103V		OK .
R1017	ERJ6GEYJ103V		BK BK
R1019	ERJ6GEYJ392V	MGF CHIP 1/10W 3.	
R1020	ERJ6GEYJ682V	MGF CHIP 1/10W 6.	
R1022	ERJ6GEYJ221V		20
R1025	VRESE2TJ150		15
	ERJ6GEYJ472V	MGF CHIP 1/10W 4.	
R1051	ERDS2TJ123		2K
R1051 R1052		1	
	(D)		
	(D) ERDS2TJ153	1	5K
		1	5K
	ERDS2TJ153 (G) ERDS2TJ153		5K
R1052	ERDS2TJ153 (G) ERDS2TJ153 (G)	1	5K
R1052	ERDS2TJ153 (G) ERDS2TJ153	1	

Ref. No.	Part No.	Part	Name	Remarks
R1058	ERDS2TJ104		100K	
R1066	ERDS2TJ182		1.8K	
R1067	ERD\$2TJ104		100K	
R1068	ERDS2T0	MGF CHIP	0 ● 1/10₩ 330	
R3002 R3003	ERJ6GEYJ331V ERJ6GEYJ101V	MGF CHIP	1/10W 100	
R3004	ERJ6GEYJ750V	MGF CHIP	1/10W 75	
R3005	ERDS2TJ101		100	
R3021	ERJ6GEYJ332V	MGF CHIP	1/10W 3.3K	
R3022	ERJ6GEYJ332V	MGF CHIP	1/10W 3.3K	
R3023	ERJ6GEYJ121V	MGF CHIP	1/10W 120	
R3027	ERJ6GEYJ681V	MGF CHIP	1/10W 680	
R3029	ERJ6GEYJ125V	MGF CHIP	1/10W 1.2M	1
R3030	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R3031	ERJ6GEYJ474V	MGF CHIP	1/10W 470K	
R3033	ERJ6GEYJ392V	MGF CHIP	1/10W 3.9K	 ,
R3034	ERJ6GEYJ121V	MGF CHIP	1/10W 120 1/10W 10K	
R3035	ERJ6GEYJ103V	MGF CHIP	1/10W 1.2K	
R3036 R3041	ERJ6GEYJ122V ERJ6GEYJ750V	MGF CHIP	1/10W 75	-
R3301	ERJ6GEYJ102V	MGF CHIP	1/10W 1K	
R3302	ERJ6GEYJ222V	MGF CHIP	1/10W 2.2K	
R4001	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R4002	ERJ6GEYJ334V	MGF CHIP	1/10W 330K	
R4003	ERJ6GEYJ221V	MGF CHIP	1/10W 220	
R4004	ERJ6GEYJ333V	MGF CHIP	1/10W 33K	
R4005	ERJ6GEYJ225V	MGF CHIP	1/10W 2.2M	
R4006	ERJ6GEYJ681V	MGF CHIP	1/10W 680	-
R4007	ERJ6GEYJ821V	MGF CHIP	1/10W 820	-
R4008	ERJ6GEYJ223V	MGF CHIP	1/10W 22K	
R4009	ERJ6GEYJ473V	MGF CHIP	1/10W 47K	
	(D)		4 /4 0111 471/	
R4010	ERJ6GEYJ473V	MGF CHIP	1/10W 47K	
	(D)	MGF CHIP	1/10W 12K	
	ERJ6GEYJ123V	MOF CHIP	1/10# 12K	
R4011	ERJ6GEYJ562V	MGF CHIP	1/10W 5.6K	
H4011	(D)	100 0111	17 1011 3. 011	
	ERJ6GEYJ682V	MGF CHIP	1/10W 6.8K	
	(G)			-
R4012	ERJ6GEYJ682V	MGF CHIP	1/10W 6.8K	
R4013	ERJ6GEYJ331V	MGF CHIP	1/10W 330	
	(D)			
'R4014	ERJ6GEYJ472V	MGF CHIP	1/10W 4.7K	
R4015	ERJ6GEYJ222V	MGF CHIP	1/10W 2.2K	
R4016	ERJ6GEYJ471V	MGF CHIP	1/10W 470	
	(D)			
	ERJ6GEY0R00V	MGF CHIP	1/10₩ 0 ●	
	(G)	1105 0115	1 (100) 100	
R4017	ERJ6GEYJ101V	MGF CHIP	1/10W 100	
	(D)	MGF CHIP	1/10W 1K	
	(G)	and dilli	1/1011 16	
R4018	ERJ6GEYJ332V	MGF CHIP	1/10W 3.3K	
14010	(D)		.,	
R4027	ERJ6GEY0R00V	MGF CHIP	1/10₩ 0 ●	
R4028	ERJ6GEYJ472V	MGF CHIP	1/10W 4.7K	
R4101	ERJ6GEYJ184V	MGF CHIP	1/10W 180K	
R4102	ERJ6GEYJ393V	MGF CHIP	1/10W 39K	
R4103	ERJ6GEYJ153V	MGF CHIP	1/10W 15K	
R4201	ERJ6GEYJ472V	MGF CHIP	1/10W 4.7K	
	(G)			
R4202	ERJ6GEYJ472V	MGF CHIP	1/10W 4.7K	
	(G)	1105 2115	4 (200)	
R4203	ERJ6GEYJ511V	MGF CHIP	1/10W 510	
	(G)	HCE CUID	1/2011 510	
R4204	ERJ6GEYJ511V	MGF CHIP	1/10W 510	no.
D4005	(G)	MCE CHID	1/10W 33K	N
R4205	ERJ6GEYJ333V	MGF CHIP	1/ TUT 33K	
DA206	(G) ERJ6GEYJ333V	MGF CHIP	1/10W 33K	
R4206	(G)	and diffi	17.1011 3311	
R4207	ERJ6GEYJ153V	MGF CHIP	1/10W 15K	
114201	(G)			
R4208	ERJ6GEYJ153V	MGF CHIP	1/10W 15K	
	(G)			
R4213	ERJ6GEYJ333V	MGF CHIP	1/10W 33K	
		- 1		
	(G)			
	(G)			

Ref. No.	Part No.	Part Name		Remarks
R4214	ERJ6GEYJ333V	MGF CHIP	1/10W 33K	
R4215	(G) ERJ6GEYJ153V	MGF CHIP	1/10W 15K	
111210	(G)		7, 100	:
R4216	ERJ6GEYJ153V	MGF CHIP	1/10W 15K	
R4217	ERJ6GEYJ102V	MGF CHIP	1/10W 1K	
D4040	(G)	HOE OUID	1/10W 1V	
R4218	ERJ6GEYJ102V	MGF CHIP	1/10W 1K	
R4219	ERJ6GEYJ683V	MGF CHIP	1/10W 68K	
R4220	(G) ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
THEE	(G)	#G 5111	1,700 100	
R4221	ERJ6GEYJ101V	MGF CHIP	1/10W 100	
R4222	ERJ6GEYJ101V	MGF CHIP	1/10W 100	
	(G)		A /4 AW	
R4240	(G)	MGF CHIP	1/10W 0	•
R4241	ERA6YEB153V	MGF CHIP +-0.	1% 1/10W 15K	
R4243	(G) ERDS2TJ152		1.5K	
N4243	(G)		1.5%	
R4244	ERJ6GEYJ152V	MGF CHIP	1/10W 1.5K	7
R4246	ERJ6GEYJ333V	MGF CHIP	1/10W 33K	
-	(G)			
R4247	ERJ6GEYJ123V	MGF CHIP	1/10W 12K	
R4248	ERJ6GEY0R00V	MGF CHIP	1/10W 0	•
D4040	(G)	MCE CHID	1 /100	
R4249	(G)	MGF CHIP	1/10W 1K	
R4601	ERJ6GEYJ123V	MGF CHIP	1/10W 12K	
R4602	(G) ERJ6GEYJ472V	MGF CHIP	1/10W 4.7K	
114002	(D)	mor offi	17 1007 11710	
	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R4604	(G) ERJ6GEYJ561V	MGF CHIP	1/10W 560	
0.005	(G)	HOT OLUB	1 /10 11 5 61	
R4605	ERJ6GEYJ562V	MGF CHIP	1/10W 5.6K	
R4606	ERJ6GEYJ682V	MGF CHIP	1/10W 6.8K	
R4607	ERJ6GEYJ101V	MGF CHIP	1/10W 100	
114007	(G)	MOI CITY	17 1011 100	
R4608	ERJ6GEYJ102V	MGF CHIP	1/10W 1K	:
R6001	ERDS2TJ101		100	
R6004	ERJ6GEYJ333V	MGF CHIP	1/10W 33K	
R6005	(G) ERJ6GEYJ223V	MGF CHIP	1/10W 22K	, , , , , , , , , , , , , , , , , , , ,
	(G)			
R6006 R6008	ERJ6GEYJ103V ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
110000	(G)	aron offit	17 TON TON	
R6010	ERJ6GEYJ182V	MGF CHIP	1/10W 1.8K	
R6012 R6016	ERJ6GEYJ102V ERJ6GEYJ243V	MGF CHIP	1/10W 1K 1/10W 24K	
R6019	ERJ6GEYJ221V	MGF CHIP	1/10W 220	
R6020 R6022	ERJ6GEYJ221V ERJ6GEYJ333V	MGF CHIP	1/10W 220 1/10W 33K	
R6023	ERJ6GEYJ562V	MGF CHIP	1/10W 5.6K	
R6024	ERJ6GEYJ562V	MGF CHIP	1/10W 5.6K	
R6025 R6026	ERJ6GEYJ332V ERJ6GEYJ101V	MGF CHIP	1/10W 3.3K 1/10W 100	
R6027	ERJ6GEYJ101V	MGF CHIP	1/10W 100	
R6030 R6031	ERJ6GEYJ103V ERJ6GEYJ563V	MGF CHIP	1/10W 10K 1/10W 56K	
R6033	ERDS2TJ681	MOF CRIF	680	
R6034	ERJ6GEYJ563V	MGF CHIP	1/10W 56K	
R6035 R6037	ERJ6GEYJ101V ERDS2TJ391	MGF CHIP	1/10W 100 390	
R6038	ERDS2TJ560		56	
R6039 R6051	ERJ6GEYJ101V ERJ6GEYJ472V	MGF CHIP	1/10W 100 1/10W 4.7K	
10001	D1000E134724	mor GHIT	1/1011 7./	

Ref. No.	Part No.	P	art Name	Remarks
6052	ERJ6GEYJ103V	IGF CHIP	1/10W 10K	
6053		GF CHIP	1/10W 10K	
6056		GF CHIP	1/10W 10K	
6057		IGF CHIP	1/10W 10K	
6058	ERJ6GEYJ103V	AGF CHIP	1/10W 10K	
6059	ERJ6GEYJ472V	AGF CHIP	1/10W 4.7K	
6060	ERJ6GEYJ475V	MGF CHIP	1/10W 4.7M	
6061	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
6062	ERJ6GEYJ224V	MGF CHIP	1/10W 220K	
R6063	ERJ6GEYJ153V	MGF CHIP	1/10W 15K	
6064	ERJ6GEYJ153V	MGF CHIP	1/10W 15K	
16065	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
16066	ERJ6GEYJ473V	MGF CHIP	1/10W 47K	
6068	ERJ6GEYJ472V	MGF CHIP	1/10W 4.7K	
36069	ERJ6GEYJ104V	MGF CHIP	1/10W 100K	
R6070	ERJ6GEYJ104V	MGF CHIP	1/10W 100K	
36073	ERJ6GEYJ473V	MGF CHIP	1/10W 47K	
36074	ERDS2TJ272		2.7K	
36075	ERJ6GEYJ223V	MGF CHIP	1/10W 22K	
R6077	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R6078	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R6080	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R6081		MGF CHIP	1/10W 100K	
R6082	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R6084		MGF CHIP	1/10W 10K	
R6085	ERJ6GEYJ223V	MGF CHIP	1/10W 22K	
R6086		MGF CHIP	1/10W 22K	
R6087	ERJ6GEYJ223V	MGF CHIP	1/10W 22K	
R6088	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
	(G)			
R6089	ERJ6GEYJ102V	MGF CHIP	1/10W 1K	
R6103	ERJ6GEYJ472V	MGF CHIP	1/10W 4.7K	
R6108		MGF CHIP	1/10W 10K	
R6109		MGF CHIP	1/10W 10K	
R6110	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R6201	EVNGBAA01B24	VARIABLE	20K	
R6202	ERJ6GEYJ274V	MGF CHIP	1/10W 270K	
R6203	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R6204	ERJ6GEYJ184V	MGF CHIP	1/10W 180K	
R6205	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R6224	ERJ6GEYJ472V	MGF CHIP	1/10W 4.7K	
R6228	ERJ6GEYJ152V	MGF CHIP	1/10W 1.5K	
R6230	ERJ6GEYJ222V	MGF CHIP	1/10W 2.2K	
R6301	ERDS2TJ104		100K	
R6302	ERDS2TJ104		100K	
R6303	ERDS2TJ104		100K	
R6304	ERDS2TJ104		100K	
R6305	ERDS2TJ104		100K	
	ERDS2TJ15.1		150	
R6306			150	
R6308	ERDS2TJ151 ERDS2TJ151		150	
R6309			150	
R6310	ERDS2TJ151		150	
R6311	ERDS2TJ151		150	
DCCCC	(G)		150	
R6313	ERDS2TJ151		1.30	
2004:	(G)	<u> </u>	150	
R6314	ERDS2TJ151		150	
D00-5	(G)		47	
R6315	ERDS2TJ470		5, 6K	
R6390	ERDS2TJ562		3,01	
	(G)	MCE CILID	1/10W 47K	
R7001	ERJ6GEYJ473V	MGF CHIP	1/10W 47K	
	(D)	HOT OUT	4 /4 0 11 0 22 0	
R7002	ERJ6GEYJ271V	MGF CHIP	1/10W 270	-1
R7004	ERJ6GEYJ102V	MGF CHIP	1/10W 1K	
R7006	ERJ6GEYJ102V	MGF CHIP	1/10W 1K	
R7007	EVNGBAA01B24	VARIABLE	20K	
	(G)			
		CAPACITO		<u> </u>
C1001	ECKNRS103ZVD	CERAMIC	+80%-20% 125V 0.01	
	OR ECKNTS103MF8		+-20% 125V 0.01	
	OR VCKSTQG103ZY		+80%-20% 125V 0.01	
	OR VCKSUQD103MY		+20% 125V 0.01	
C1002	ECKNNB332ME8	CERAMIC	+-20% 125V 3300P	
	OR ECKNTS332ME8		+-20% 125V 3300P	
	OR VCKSTQG332MX	CERAMIC	←20% 125V 3300P	
	OR VCKSUQD332MX		+-20% 125V 3300P	
l	OII TOROUGEOUE			

Ref. No.	Part No.	P	art Name			Remarks
1003	ECKNNB332ME8				3300P	
	OR ECKNTS332ME8				3300P	
	OR VCKSTQG332MX				3300P	
	OR VCKSUQD332MX				3300P	
21004		ELECTROLYT I		200V 200V	82	
	OR VCESR2D820XB	ELECTROLYTT	C .	2007	82	<u>A</u>
	(D) ECEA2DU121YB	ELECTROLYTI	^	200V	120	A
	OR VCESR2D121XB			200V	120	
	(G)	ELECTROCITI		2001	120	
C1005		ELECTROLYTI	С	200V	4.7	
C1006	ECKW2H221KB5	CERAMIC		500V	220P	
C1007	VCKSLZE224MB			25V	0.22	
C1009	ECO81H183JF			50V	0.018	
C1010	ECUV1H101JCM			50V	100P	
C1011	ECA1HM4R7B	ELECTROLYTI	С	507	4.7	
	(D)					
	ECEA1HGE4R7	ELECTROLYTI	С	50V	4.7	
	(G)					
C1012	ECEA1PEE331	ELECTROLYTI		18V	330	
C1013	ECA1EM331B	ELECTROLYTI		25V	330	
C1014	ECEA1HGE4R7	ELECTROLYTI	С	507	4.7	
	(D)			***		
	ECEA1HGE470	ELECTROLYTI	С	500	47	1
	(G)					,
C1016	ECEA1PEE331	ELECTROLYTI		187	330	
C1017	ECAOJM102B	ELECTROLYTI		6. 3V		
C1018	VCYSBRC104MX	CERAMIC	+-20%	16V	0.1	
C1021	ECEA1HKG010	ELECTROLYTI		507	1000	
C1025	ECKNRS101MBY		+-20%	125V		
	OR ECKNTS101MB	CERAMIC	+-20%	125V		
	OR VCKSTNG101KW			125V		
	OR VCKSUND101KW			125V		
C1027	ECKNRS103ZVD	CERAMIC	+80%-20%			
	OR ECKNTS103MF8		+-20%	125V		
	OR VCKSTQG103ZY		+80%-20%			
	OR VCKSUQD103MY	CERAMIC	+-20%	1250		
C1028	ECEA1PEE331	ELECTROLYT		187	330	
C1029	ECUV1H101JCN	C CHIP	+-5%	50V	0.018	
C1030	VCYSBRE183KX	CERAMIC	10	25V 50V	0. 47	·
C1051	ECEA1HKAR47	ELECTROLYT		167	10.47	· · · · · · · · · · · · · · · · · · ·
C1052	ECEA1CKA100	ELECTROLYT		6.3		
C1058	ECEA0JEE101 ECEA1CKA470	ELECTROLYT		16V	47	
C1059 C1061	ECUV1H102KBN	C CHIP	10	500	1000F	
C3001	ECA0JM471	ELECTROLYT	IC	6.3		
C3002	ECUV1E104ZFN	C CHIP	+80%-20%		0.	
C3011	ECUV1H103KBN	C CHIP	1007	50V	0.0	
C3014	ECUV1E104ZFN	C CHIP	+80%-20%		0.	
C3015	ECUV1E104ZFN	C CHIP	+80%-20%		0.	
C3017	ECEA1EKA4R7	ELECTROLYT		25V	4.	
C3018	ECUV1H181JCN	C CHIP	+-5%	50V	180	
C3019	ECUV1H560JCN	C CHIP	+-5%	50V	56	
C3021	ECUV1C224ZFN	C CHIP	+80%-20%		0.2	
C3022	ECUV1E104ZFN	C CHIP	+80%-20%		0.	
C3023	ECEA0JKA221	ELECTROLYT	IC	6.3\		
C3024	ECEA0JKA470	ELECTROLYT	IC	6.3\	/ 4	7
C3025	ECUV1H103ZFN	C CHIP	+80%-20%	50V	0.0	1
C3026	ECUV1E104ZFN	C CHIP	+80%-20%	25V	0.	1
C3027	ECUV1C224ZFN	C CHIP	+80%-20%	167	0.2	2
C3028	ECEA1CKA100	ELECTROLYT		16V	1	0
C3029	ECUV1E104ZFN	C CHIP	+80%-20%	25V	0.	1
C3030	ECEA0JKA221	ELECTROLYT		6.3		
C3031	ECEA1HKA2R2	ELECTROLYT		50V	2.	
C3032	ECEA1HKA2R2	ELECTROLYT		507	2.	
C3033	ECEA0JKA470	ELECTROLYT		6.3		
C3034	ECEA1HKAR22	ELECTROLYT		500	0.2	
C3035	ECUV1H560JCN	C CHIP	←5%	50V	56	
C3036	ECUV1E104ZFN	C CHIP	+80%-20%	_	0.	
C3037	ECEA0JKA220	ELECTROLYT	10	6. 3		
C3039	ECUV1H822KBN	C CHIP		507		
C3043	ECUV1H103ZFN	C CHIP	+80%-20%	50V	0.0	
C3044	ECUV1C474ZFN	C CHIP	+80%-20%	16V	0.4	7
C3045	ECUV1C474ZFN	C CHIP	+80%-20%	167	0.4	
C3047	ECUV1H181JCN	C CHIP	+-5%	500	180	
C3048	ECUV1H560JCN	C CHIP	+-5%	50V	. 56	P
00040		I a service	.00% 20%	251	0.	11
C3049	ECUV1E104ZFN	C CHIP	+80%-20%	234	- 0.	1
	ECUV1E104ZFN ECUV1E104ZFN	C CHIP	+80%-20%	_	Ó.	1

Ref. No.	Part No.	Part Name	Remarks
C3052	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.01	
C3053	ECEA1HKAR47	ELECTROLYTIC 50V 0.47	
C3054	ECEA1HKA2R2	ELECTROLYTIC 50V 2.2	
C3055	ECUV1H392KBN	C CHIP 50V 3900P	
C3056 C3057	ECEA1HKA010	ELECTROLYTIC 50V 1 C CHIP +80%-20% 25V 0.1	
C3057	ECUV1E104ZFN ECEA0JKA221	ELECTROLYTIC 6.3V 220	
C3062	ECUVIE104ZFN	C CHIP +80%-20% 25V 0.1	
C3101	ECEA1HKA010	ELECTROLYTIC 50V 1	
C3102	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	
C3104	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.01	
C3105	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.01	
C3106 C3108	ECUV1H103ZFN ECUV1H102KBN	C CHIP +80%-20% 50V 0.01	
C3109	ECEAOJKA221	ELECTROLYTIC 6.3V 220	
C3302	ECEA1HKA010	ELECTROLYTIC 50V 1	
C3303	ECUV1H390JCN	C CHIP +-5% 50V 39F	
C3304	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	
C3306	ECEA1HKN010	ELECTROLYTIC 50V 1	
C4001	ECUVIC224ZFN	C CHIP +80%-20% 16V 0.22 ELECTROLYTIC 50V 1	
C4002 C4003	ECEA1HKA010 ECUV1H392KBN	C CHIP 50V 3900F	
C4003	ECUV1H103KBN	C CHIP 50V 0.01	
C4005	ECEAOJKA220	ELECTROLYTIC 6.3V 22	
C4006	ECUV1H102KBN	C CHIP 50V 1000F	
C4007	ECEA0JKA220	ELECTROLYTIC 6.3V 22	
C4008	ECEAOJKA470	ELECTROLYTIC 6.3V 47	
C4009 C4010	ECUV1E273KBN	C CHIP 25V 0.027	
C4010	ECUV1E273KBN	C CHIP 50V 8200F	
C4012	ECEA1HKA010	ELECTROLYTIC 50V	
C4013	ECEAOJKA470	ELECTROLYTIC 6.3V 47	
C4014	ECEA1HKA010	ELECTROLYTIC 50V	
C4017	ECUV1H103KBN	C CHIP 50V 0.01	
04040	(G)	ELECTROLYTIC 50V	
C4018	ECEA1HKA010	ELECTROLITIC SOV	
C4020	ECUV1H102KBN	C CHIP 50V 1000F	
C4101	ECUV1H221JCN	C CHIP +5% 50V 220F	
C4102	ECQB1562JF	POLYESTER ←5% 200V 5600F	
C4103	ECUV1H103KBN	C CHIP 50V 0.01	
C4104	ECUV1H103KBN	C CHIP 50V 0.01	
C4106	ECEA1CKA220 ECUV1E473KBN	ELECTROLYTIC 16V 23 C CHIP 25V 0.04	
C4201	(G)	C CHIP 25V 0.04	
C4202	ECUV1E473KBN	C CHIP 25V 0.04	,
	(G)		
C4203	ECEA0JKA330	ELECTROLYTIC 6.3V 3:	
	(G)		
C4204	ECEA0JKA330	ELECTROLYTIC 6.3V 33	
CARRE	(G) ECEA1HKA2R2	ELECTROLYTIC 50V 2.2	
C4205	(G)	201 2.1	
C4206	ECEA1HKA2R2	ELECTROLYTIC 50V 2.2	2
	(G)		
C4207	ECEA0JKA101	ELECTROLYTIC 6.3V 100	
	(G)	FI FOTPOLYTIC CONT.	
C4208	ECEAOJKA101	ELECTROLYTIC 6.3V 100	<u>'</u>
C4200	(G) ECUV1H153KBN	C CHIP 50V 0.019	3
C4209	(G)	307 0.01.	
C4210	ECUV1H153KBN	C CHIP 50V 0.019	
	(G).		
C4211	ECUV1H103KBN	C CHIP 50V 0.0	
	(G)	0.000	
C4212	ECUV1H103KBN	C CHIP 50V 0.0	
C4213	(G) ECEA1HKA010	ELECTROLYTIC 50V	
67213	(G)		
C4214	ECEA1HKA010	ELECTROLYTIC 50V	
	(G)		
C4217	ECEA1HKA010	ELECTROLYTIC 50V	
	(G)	FI FOTDOLVELO FOU	
C4218	ECEA1HKA010	ELECTROLYTIC 50V	
CA210	ECEA1CKA100	ELECTROLYTIC 16V 10	
C4219	(G)	107	
C4220	ECEA1CKA100	ELECTROLYTIC 16V 10	
	(G)		

CA223	Ref. No.	Part No.	Part Name	Remarks
C4236	C4229		ELECTROLYTIC 6.3V 47	
C4237	C4235		ELECTROLYTIC 16V 10	
(G) C4237	CADDE		ELECTROLYTIC 6 2V A7	
C4238 ECGAICKA100 ELECTROLYTIC 16V 10 C6 C6 C7 C7 C7 C7 C7 C7	C4230		ELECTROLITIC 0.3V 47	
C4238 ECEATICA 100 ELECTROLYTIC 16V 10 C4239 ECEAHMADIO ELECTROLYTIC 50V 1 C4240 ECONICEZEZEN C CHIP +80M-20% 16V 0.22 C4242 ECONICEZEZEN C CHIP +80M-20% 16V 0.22 C4601 ECOVICEZEZEN C CHIP +80M-20% 16V 0.22 C4601 ECOVICEZEZEN C CHIP +80M-20% 16V 0.22 C4606 ECOVICEZEZEN C CHIP +80M-20% 16V 0.22 C4606 ECOVICEZEZEN C CHIP +80M-20% 16V 0.22 C606 ECOVICEZEZEN C CHIP +80M-20% 16V 0.22 C606 ECOVICEZEZEN C CHIP +80M-20% 15V 0.1 C6005 ECOVITEIOAZEN C CHIP +80M-20% 15V 0.1 C6006 ECOVITIESUON C CHIP +50M-20% 15V 0.1 C6012 ECOVITIESUON C CHIP +50M-20% 25V 0.1 C6012 ECOVITIESUON C CHIP +50M-20% 25V 0.1	C4237	-	ELECTROLYTIC 16V 10	
CA239 EECAHKA010 ELECTROLYTIC 50V 1 C4240 ECJW1C224ZPN C CHIP +80%-20% 16V 0.22 C4242 ECJW1C224ZPN C CHIP +80%-20% 56V 0.01 C4601 ECJW1C224ZPN C CHIP +80%-20% 16V 0.22 C4603 ECJW1C224ZPN C CHIP +80%-20% 16V 0.22 C4606 ECJW1C224ZPN C CHIP +80%-20% 16V 0.22 C6606 ECJW1EGAZPN C CHIP +80%-20% 16V 0.22 C6606 ECJW1EGAZPN C CHIP +80%-20% 16V 0.22 C6003 ECJW1EGAZPN C CHIP +50% 50V 15P C6005 ECJW1HISDJON C CHIP +50% 50V 15P C6012 ECJW1HIDJUCN C CHIP +50% 50V 10P C6017 ECJW1HIDJUCN C CHIP +50% 50V 100P C6017 ECJW1HIDJUCN C CHIP +50% 50V 100P C6025 ECJW1HIDJUCN C CHIP +50% 50V 100P	C4238	ECEA1CKA100	ELECTROLYTIC 16V 10	
C4242	C4239		ELECTROLYTIC 50V 1	
C4242 ECM/HI03ZPN C CHIP	04040		0.000 0000 1000 0.00	
C4601 ECUVIC224ZPN C CHIP	C4240		C CHIP +80%-20% 16V 0.22	
C4601	C4242		C CHIP +80%-20% 50V 0.01	
CAGO3 ECUVICIO224ZFN C CHIP +80%-20% 16V 0.22 CAGO6 ECUVICIQ4ZFN C CHIP +80%-20% 25V 0.1 CEGO3 ECUVICID4ZFN C CHIP +50% 50V 15P CEGO5 ECUVIHISOLON C CHIP +50% 50V 12P CEGO1 ECUVILITAZFN C CHIP +50% 50V 12P CEGO1 ECUVILITAZFN C CHIP +50% 50V 12P CEGO1 ECUVILITAZFN C CHIP +50% 50V 10P CEGO2 ECUVILITAZFN C CHIP +50% 50V 10P CEGO2 ECUVILITAZFN C CHIP +50% 50V 10P CEGO2 ECUVILITAZFN C CHIP 50V 10P CEGO2 ECUVILITAZFN C CHIP 50V 10P CEGO3 ECUVILITAZFN C CHIP 50V 10P CEGO1 ECENTRAGO ELECTROLYTIC 16V 10 CEGO2 ECUVILITAZFN C CHIP 50V 20P CEGO3 ECHICALON C ELECTROLYTIC 6.3V 47 CEGO2 ECUVILITAZFN C CHIP 50V 20P CEGO3 ECUVILITAZFN C CHIP 50V 20P CEGO3 ECUVILITAZFN C CHIP 50V 20P CEGO3 ECUVILITAZFN C CHIP 50V 20P CEGO2 ECUVILITAZFN C CHIP 50V 20	C4601	ECUV1C224ZFN	C CHIP +80%-20% 16V 0.22	
C4606	C4603		C CHIP +80%-20% 16V 0.22	
C6003		ECUV1C224ZFN		
C6005	C6003		C CHIP +80%-20% 25V 0.1	
C6012 CCUVIEI04ZFN C CHIP		-		
C6016 ECEAUJA171 ELECTROLYTIC 6.3V 470				
C6017 ECUVIHIOLON C CHIP ←5% 50V 100P C6019 ECEAUJARIOL ELECTROLYTIC 6.3V 100 C6026 ECUVIHIOZKON C CHIP +5% 50V 1000P C6026 ECUVIHIOZKON C CHIP 50V 1000P C6201 ECUVIHIOXEN C CHIP 50V 1000P C6203 ECUVIHIOXEN C CHIP 50V 0.01 C6203 ECUVIHIOXEN C CHIP 50V 0.01 C6207 ECUVIEIO4ZPN C CHIP 50V 150P C6213 ECUVIHIOXEN C CHIP 50V 1000P C6214 ECUVIHIOZEN C CHIP 50V 1000P C6217 ECOLORADO ELECTROLYTIC 6.3V 22 C6221 ECAJUKAZ2O ELECTROLYTIC 6.3V 22 C6222 ECUVIHIOXEN C CHIP 50V 2.00P C6223 ECUVIHIOZEN C CHIP 50V 2.00P C6221 E				
C6019 ECEAOJKA101 ELECTROLYTIC 6.3V 100	-		the state of the s	
C6025 ECUVIHIOJCKIN C CHIP +5% 50V 100P C6026 ECUVIHIOZKIN C CHIP 50V 1000P C6201 ECUVIHIOZKIN C CHIP 50V 1000P C6203 ECUVIHIOJKIN C CHIP 50V 0.00 C6208 ECEATIKKAOTO ELECTROLYTIC 50V 1 C6213 ECUVIHIOZKIN C CHIP 50V 150P C6214 ECUVILIOZKIN C CHIP 50V 150P C6217 ECUVILIOZKIN C CHIP 50V 1000P C6218 ECEATICKATO ELECTROLYTIC 16V 10 C6221 ECEALIKAZO ELECTROLYTIC 6.3V 22 C6222 ECUVILIBOZEN C CHIP 50V 200P C6222 ECUVILIBOZEN C CHIP 50V 200P C6223 ECUVILIBOZEN C CHIP 50V 20 C6224 ECEALIKATO ELECTROLYTIC 6.3V 10 C6228 ECUVILIBOZEN				
C6201 ECUVIHIO2KBN C CHIP 50V 1000P C6203 ECUVIHIO3KBN C CHIP 50V 0.01 C6208 ECUVIHIO3KBN C CHIP +80K-20K, 25V 0.1 C6208 ECEAIRKA010 ELECTROLYTIC 50V 1 C6214 ECUVIHID2KBN C CHIP 50V 150P C6217 ECUVIE104ZFN C CHIP +80K-20K, 25V 0.1 C6218 ECEAICKA100 ELECTROLYTIC 16V 10 C6221 ECEAILKA20 C CHIP 50V 20 C6222 ECUVIHI03KBN C CHIP 50V 200P C6223 ECUVIHI03KBN C CHIP 50V 0.01 C6224 ECEALKA101 ELECTROLYTIC 6.3V 100 C6228 ECUVIE104ZFN C CHIP +80K-20K 25V 0.1 C6301 ECEALKA470 ELECTROLYTIC 6.3V 47 C6390 ECEALCKA470 ELECTROLYTIC 6.3V 220 C7001				
C6203 ECUVIHIO3KBN C CHIP 50V 0.01 C6207 ECUVIEI04ZFN C CHIP +80K-20K 25V 0.1 C6208 ECEAHKA010 ELECTROLYTIC 50V 1 C6213 ECUVIHISTKN C CHIP 50V 150P C6214 ECUVIHICXBN C CHIP 50V 1000P C6217 ECUVIHICXBN C CHIP 50V 100 C6218 ECEAICKA100 ELECTROLYTIC 6.3V 22 C6221 ECEAOLKA220 ELECTROLYTIC 6.3V 22 C6222 ECUVIHIO3XBN C CHIP 50V 200 C6223 ECUVIHIO3XBN C CHIP 50V 20 C6224 ECEAOLKA210 ELECTROLYTIC 6.3V 100 C6228 ECUVIHIO3XBN C CHIP +80K-20K 25V 0.1 C6301 ECEAOLKA470 ELECTROLYTIC 6.3V 47 C6301 ECEAICKA470 ELECTROLYTIC 6.3V 220 C7001 <td></td> <td></td> <td></td> <td></td>				
C6207 ECUVIEI04ZFN C CHIP +80%-20% 25V 0.1 C6208 ECEAHKAO10 ELECTROLYTIC 50V 1 C6213 ECUVIHISIKN C CHIP 50V 150P C6214 ECUVIHIOZKEN C CHIP 50V 1000P C6217 ECUVIEI04ZFN C CHIP +80%-20% 25V 0.1 C6218 ECEACIKA100 ELECTROLYTIC 6.3V 22 C6221 ECEAUJKA220 ELECTROLYTIC 6.3V 22 C6222 ECUVIHIOSKEN C CHIP 50V 2700P C6224 ECEAUJKA101 ELECTROLYTIC 6.3V 100 C6228 ECUVIEI04ZFN C CHIP +80%-20% 25V 0.1 C6301 ECEAUJKA470 ELECTROLYTIC 6.3V 47 C6301 ECEAUJKA221 ELECTROLYTIC 6.3V 220 C7001 ECEAUCKA470 ELECTROLYTIC 6.3V 220 C7005 ECUVIHI03ZFN C CHIP +80%-20% 50V <td></td> <td></td> <td></td> <td></td>				
C6208 ECEAHKA010 ELECTROLYTIC 50V 1 C6213 ECUVIHISTIKN C CHIP 50V 150P C6214 ECUVIHIO2KBN C CHIP 50V 1000P C6217 ECUVIEI04ZFN C CHIP +80%-20% 25V 0.1 C6218 ECEALCKA100 ELECTROLYTIC 6.3V 22 C6221 ECEADJKA220 ELECTROLYTIC 6.3V 22 C6222 ECUVIHIO3KBN C CHIP 50V 0.01 C6223 ECUVIHIO3KBN C CHIP +80%-20% 25V 0.1 C6224 ECEADJKA101 ELECTROLYTIC 6.3V 100 C6228 ECUVIEI04ZFN C CHIP +80%-20% 25V 0.1 C6301 ECEALCKA470 ELECTROLYTIC 6.3V 47 C6390 ECEALCKA470 ELECTROLYTIC 6.3V 220 C7001 ECEALCKA470 ELECTROLYTIC 6.3V 220 C7003 ECUVIHI03ZFN C CHIP +80%-20% 50V 0.01 C7005				
C6214 ECUVIHIO2KBN C CHIP	C6208		ELECTROLYTIC 50V 1	
C6217 ECUVIE104ZFN C CHIP +80%-20% 25V 0.1 C6218 ECEALICKA100 ELECTROLYTIC 16V 10 C6221 ECEAOJKA220 ELECTROLYTIC 16V 10 C6222 EGUVIH2ZKRN C CHIP 50V 2700P C6223 EGUVIH103KBN C CHIP 50V 0.01 C6224 ECEAOJKA101 ELECTROLYTIC 6.3V 100 C6228 EGUVIH103ZFN C CHIP +80%-20% 25V 0.1 C6301 ECEAOJKA470 ELECTROLYTIC 6.3V 47 C6390 ECEAJCKA470 ELECTROLYTIC 6.3V 220 C7001 ECEAJCKA1221 ELECTROLYTIC 6.3V 220 C7003 ECUVIH103ZFN C CHIP +80%-20% 50V 0.01 C7005 EGUVIH103ZFN C CHIP +80%-20% 50V 0.01 C7010 ECEAICKA100 ELECTROLYTIC 16V 10 C7015 ECEAICKA102 ELECTROLYTIC				
C6218 ECEA10KA100 ELECTROLYTIC 16V 10 C6221 ECEA0JKA220 ELECTROLYTIC 6.3V 22 C6222 ECLV/H272KBN C CHIP 50V 2700P C6223 EGUVHIO3KBN C CHIP 50V 0.01 C6224 ECEADJKA101 ELECTROLYTIC 6.3V 100 C6228 EGUVIETO4ZFN C CHIP +80%-20% 25V 0.1 C6301 ECEAOJKA470 ELECTROLYTIC 6.3V 47 C6390 ECEATCKA470 ELECTROLYTIC 16V 47 C7001 ECEAOJKA221 ELECTROLYTIC 6.3V 220 C7003 ECUVIHIO3ZFN C CHIP +80%-20% 50V 0.01 C7005 ECUVIHIO3ZFN C CHIP +80%-20% 50V 0.01 C7010 ECAICKA101 ELECTROLYTIC 16V 100 C7010 ECAICKA102 ELECTROLYTIC 16V 10 C7015 ECAICKA103 ELECTROLYTIC 16V 10 C				
C6222 ECUV1H272KBN C CHIP 50V 2700P C6223 ECUV1H03KBN C CHIP 50V 0.01 C6224 ECADJKA101 ELECTROLYTIC 6.3V 100 C6228 ECUV1E104ZFN C CHIP +80%-20% 25V 0.1 C6301 ECEADJKA470 ELECTROLYTIC 6.3V 47 C6390 ECEALCKA470 ELECTROLYTIC 6.3V 47 C7001 ECEADJKA221 ELECTROLYTIC 6.3V 220 C7003 ECUV1E183KBN C CHIP +80%-20% 50V 0.01 C7005 ECUV1E183KBN C CHIP +80%-20% 50V 0.01 C7006 ECUV1H103ZFN C CHIP +80%-20% 50V 0.01 C7001 ECEATCKA101 ELECTROLYTIC 16V 100 C7015 ECEATCKA102 ELECTROLYTIC 16V 10 C7018 ECUV1H103ZFN C CHIP +80%-20% 50V 0.01 C7020 ECUV1H103ZFN C CHIP +80%-20% 50V 0.01 <t< td=""><td></td><td></td><td></td><td></td></t<>				
C6223 ECUV1H103KBN C CHIP 50V 0.01 C6224 ECEAJKA101 ELECTROLYTIC 6.3V 100 C6228 ECUV1E104ZFN C CHIP +80%-20% 25V 0.1 C6301 ECEAJKA470 ELECTROLYTIC 6.3V 47 C6390 ECEAJKA470 ELECTROLYTIC 6.3V 47 C7001 ECEAJKA221 ELECTROLYTIC 6.3V 220 C7003 ECUV1H103ZFN C CHIP +80%-20% 50V 0.01 C7005 ECUV1H103ZFN C CHIP +80%-20% 50V 0.01 C7006 ECUV1H103ZFN C CHIP +80%-20% 50V 0.01 C7015 ECEATCKA101 ELECTROLYTIC 16V 100 C7015 ECEATCKA102 ELECTROLYTIC 16V 10 C7016 ECUV1H103ZFN C CHIP +80%-20% 50V 0.01 C7018 ECUV1H103ZFN C CHIP +80%-20% 50V 0.01 C7020 ECUV1H103ZFN <td>C6221</td> <td>ECEA0JKA220</td> <td>ELECTROLYTIC 6.3V 22</td> <td></td>	C6221	ECEA0JKA220	ELECTROLYTIC 6.3V 22	
C6224 ECEAUJKA101 ELECTROLYTIC 6.3V 100 C6228 ECUVIE104ZFN C CHIP +80%-20% 25V 0.1 C6390 ECEALCKA470 ELECTROLYTIC 6.3V 47 C6390 ECEALCKA470 ELECTROLYTIC 16V 47 C7001 ECEAUJKA221 ELECTROLYTIC 6.3V 220 C7003 ECUVIHI03ZFN C CHIP +80%-20% 50V 0.01 C7005 ECUVIE183KBN C CHIP 25V 0.018 (D) (D) C CHIP 480%-20% 50V 0.01 C7006 ECUVIH103ZFN C CHIP +80%-20% 50V 0.01 C7008 ECEATCKA101 ELECTROLYTIC 16V 100 C7010 ECUVIH103ZFN C CHIP +80%-20% 50V 0.01 C7013 ECUVIH03ZFN C CHIP +80%-20% 50V 0.01 C7020 ECUVIH033GNA C CHIP +5% 50V 33P C7023 ECU				
C6228 ECUV1E104ZFN C CHIP +80%-20% 25V 0.1 C6301 ECEAOJKA470 ELECTROLYTIC 6.3V 47 C6390 ECEAICKA470 ELECTROLYTIC 16V 47 C7001 ECEAJKA221 ELECTROLYTIC 6.3V 220 C7003 ECUV1H103ZFN C CHIP +80%-20% 50V 0.01 C7005 ECUV1E183KBN C CHIP 25V 0.018 (D) C CHIP +80%-20% 50V 0.01 C7006 ECUV1H103ZFN C CHIP +80%-20% 50V 0.01 C7010 ECUX1H103ZFN C CHIP 50V 1000P C7015 ECEAICKA100 ELECTROLYTIC 16V 10 C7018 ECUV1H103ZFN C CHIP +80%-20% 50V 0.01 C7020 ECUV1H330JCN C CHIP +80%-20% 50V 0.01 C7023 ECUV1H330JCN C CHIP +5% 50V 33P C7024 ECUV1H303KBN </td <td></td> <td></td> <td></td> <td></td>				
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(G) C7001 ECEAJJKA221 ELECTROLYTIC 6. 3V 220 C7003 ECUVIHI03ZFN C CHIP +80%-20% 50V 0. 01 C7005 ECUVIE183KBN C CHIP 25V 0. 018 (D) C7006 ECUVIHI03ZFN C CHIP +80%-20% 50V 0. 01 C7008 ECEATCKA101 ELECTROLYTIC 16V 100 C7010 ECUVIHI03ZFN C CHIP 50V 1000P C7015 ECEATCKA100 ELECTROLYTIC 16V 10 C7018 ECUVIHI03ZFN C CHIP +80%-20% 50V 0. 01 C7019 ECUVIHI03ZFN C CHIP +80%-20% 50V 0. 01 C7020 ECUVIHI03ZFN C CHIP +80%-20% 50V 0. 01 C7020 ECUVIHI03ZFN C CHIP +80%-20% 50V 0. 01 C7022 ECUVIH330JCN C CHIP +5% 50V 33P C7023 ECUVIH330JCN C CHIP +5% 50V 33P C7024 ECUVIH30KBN C CHIP +5% 50V 0. 01 C7026 ECUVIH30KBN C CHIP +5% 50V 0. 01 C7027 ECUVIH30KBN C CHIP +5% 50V 0. 01 C7028 ECUVIH30KBN C CHIP +5% 50V 0. 01 C7029 ECUVIH30KBN C CHIP +5% 50V 0. 01 C7020 ECUVIH30KBN C CHIP +5% 50V 0. 01 C7021 ECUVIH30KBN C CHIP +5% 50V 0. 01 C7022 ECUVIH30KBN C CHIP +5% 50V 0. 01 C7024 ECUVIH30KBN C CHIP +5% 50V 0. 01 C7025 ECUVIH30KBN C CHIP +5% 50V 0. 01 C7026 ECUVIH30KBN C CHIP +5% 50V 0. 01 C7027 ECUVIH30KBN C CHIP +5% 50V 0. 01 C7028 ECUVIH30KBN C CHIP +5% 50V 0. 01 C7029 ECUVIH30KBN C CHIP +5% 50V 0. 01 C7020 ECUVIH30KBN C CHIP +5% 50V 0. 01 C7021 ECUVIH30KBN C CHIP +5% 50V 0. 01 C7022 ECUVIH30KBN C CHIP +5% 50V 0. 01 C7024 ECUVIH30KBN C CHIP +5% 50V 0. 01 C7025 ECUVIH30KBN C CHIP +5% 50V 0. 01 C7026 ECUVIH30KBN C CHIP +5% 50V 0. 01 C7027 ECUVIH30KBN C CHIP +5% 50V 0. 01 C7028 ECUVIH30KBN C CHIP +5% 50V 0. 01 C7029 ECUVIH30KBN C CHIP +5% 50V 0. 01 C7020 ECUVIH30				
C7001 ECEAUJKA221 ELECTROLYTIC 6.3V 220 C7003 ECUVIH103ZFN C CHIP +80%-20% 50V 0.01 C7005 ECUVIETBSKEN C CHIP 25V 0.018 C7006 ECUVIH103ZFN C CHIP +80%-20% 50V 0.01 C7008 ECEAICKA101 ELECTROLYTIC 16V 100 C7010 ECUVIH102KBN C CHIP 50V 1000P C7015 ECEAICKA100 ELECTROLYTIC 16V 10 C7018 ECUVIH103ZFN C CHIP +80%-20% 50V 0.01 C7019 ECUVIH103ZFN C CHIP +80%-20% 50V 0.01 C7020 ECUVIH103ZFN C CHIP +80%-20% 50V 0.01 C7022 ECUVIH330JCN C CHIP +5% 50V 33P C7024 ECUVIH330JCN C CHIP +5% 50V 0.01 C0LS LINE FILTER 0.5A 18M Δ L1001 FLF15N005AB LINE FILTER 0.5A 18M <t< td=""><td>C6390</td><td></td><td>ELECTROLYTIC 16V 47</td><td></td></t<>	C6390		ELECTROLYTIC 16V 47	
C7003 ECUV1H103ZFN C CHIP +80%-20% 50V 0.01 C7005 ECUV1E183KBN C CHIP 25V 0.018 C7006 ECUV1H103ZFN C CHIP 25V 0.01 C7008 ECEA1CKA101 ELECTROLYTIC 16V 100 C7010 ECUV1H102KBN C CHIP 50V 1000P C7015 ECEA1CKA100 ELECTROLYTIC 16V 10 C7018 ECUV1H103ZFN C CHIP +80%-20% 50V 0.01 C7019 ECUV1H103ZFN C CHIP +80%-20% 50V 0.01 C7020 ECUV1H103ZFN C CHIP +80%-20% 50V 0.01 C7022 ECUV1H333JCN C CHIP +5% 50V 33P C7023 ECUV1H330JCN C CHIP +5% 50V 33P C7024 ECUV1H330JCN C CHIP +5% 50V 0.01 COILS L1001 ELF15N005AB LINE FILTER 0.5A 18M Δ OR VLQS0166 LIN	C7001		FLECTBOLYTIC 6.3V 220	
(D) C7006 ECUV1H103ZFN C CHIP +80%-20% 50V 0.01 C7008 ECEATCKA101 ELECTROLYTIC 16V 100 C7010 ECUV1H103ZFN C CHIP 50V 1000P C7015 ECEATCKA100 ELECTROLYTIC 16V 10 C7018 ECUV1H103ZFN C CHIP +80%-20% 50V 0.01 C7019 ECUV1H103ZFN C CHIP +80%-20% 50V 0.01 C7020 ECUV1H330JCN C CHIP +80%-20% 50V 0.01 C7022 ECUV1H330JCN C CHIP +80%-20% 50V 0.01 C7023 ECUV1H330JCN C CHIP +5% 50V 33P C7024 ECUV1H330JCN C CHIP +5% 50V 33P C7024 ECUV1H03KBN C CHIP 50V 0.01 C1026 CUV1H03CFN C CHIP 50V 0.01 C1027 ECUV1H03KBN C CHIP 50V 0.01 C1028 ECUV1H03CFN C CHIP 50V 0.01 C1029 ECUV1H03CFN C CHIP 50V 0.01 C1020 ECUV1H03CFN C CHIP 50V 0.01 C1021 EUV1H03CFN C CHIP 50V 0.01 C1022 ECUV1H03CFN C CHIP 50V 0.01 C1024 ECUV1H03CFN C CHIP 50V 0.01 C1025 ECUV1H03CFN C CHIP 50V 0.01 C1026 ECUV1H03CFN C CHIP 50V 0.01 C1027 ECUV1H03CFN C CHIP 50V 0.01 C1028 ECUV1H03CFN C CHIP 50V 0.01 C1029 ECUV1H03CFN C CHIP 50V 0.01 C1020 EUV1H03CFN C CHIP 50V 0.01 C1021 EUV1H03CFN C CHIP 50V 0.01 C1021 EUF1SN0CSAB LINE FILTER 0.5A 18M Δ OR VLQS0167 LINE FILTER 0.5A 18M Δ OR VLQSAB7D100K 10 L1001 VLQSAB7D10KA 47 L3101 ELESN101KA 100 L4001 ELESN101KA 15M L7001 VLQSAC3R120J +5% 12				
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OR YLQS0167 LINE FILTER 0.5A 18M △ L1002 VLQSAB7D220K 22 L1003 VLQSAB7D100K 10 L1006 VLPS0083 L3014 VLQSN02R390K 39 L3016 ELESN330KA 33 L3018 ELESN470KA 47 L3101 ELESN101KA 100 L4001 ELESN101KA 100 L4001 ELEN101KA 15M L7001 VLQSAC3R120J +-5½ 12	L1001		LINE FILTER 0.5A 18M	
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(E10, E21, E23, E24, E26)

(E35)

P1001 V P3001 V P4001 V P6002 V P6201 V SW6002 V SW6002 SW6302 E SW6305 E SW6307 SW6307 I SW6309 I SW6311 I SW6312 I	VSXS0195 VSXS0195 VSXS0232—TB VJPS1154 VJPS0884 (D) VJPS0885 (G) VJSS0888 VJPS0881 VJPS0883 VSHS0058 VSSS0159 EVQ21309K	CRYSTAL OSCILLATOR PIN HEADERS CONNECTOR 2P CONNECTOR 15P CONNECTOR 20P FE CONNECTOR 2P CONNECTOR 8P CONNECTOR 14P SWITCHES LEAF SWITCH-SAFETY TAB MODE SELECT SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH		Q6011 Q6012 D6008	UN511L UN5211 MA111 VMTS0035	MAIN CHILD C.B.A. TRANSISTORS CHIP CHIP DIODES CHIP MISCELLANEOUS CUSHION, RUBBER	
P1001 V P3001 V P4001 V P6002 V P6201 V SW6001 V SW6002 SW6302 E SW6305 E SW6307 SW6307 E SW6307 SW6309 E SW6311 I SW6311 I SW6312 I	VSXS0195 VSXS0195 VSXS0232—TB VJPS1154 VJPS0884 (D) VJPS0885 (G) VJPS0885 VJPS0881 VJPS0881 VJPS0883 VSHS0058 EVQ21309K	PIN HEADERS CONNECTOR 2P CONNECTOR 15P CONNECTOR 2OP FE CONNECTOR 2P CONNECTOR 8P CONNECTOR 14P SWITCHES LEAF SWITCH-SAFETY TAB MODE SELECT SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH		Q6012 D6008	UN5211 MA111	TRANSISTORS CHIP CHIP DIODES CHIP MISCELLANEOUS	
6001 V 21001 V 23001 V 24001 V 24001 V 26002 V 26201 V 26201 V 2680302 E 2680303 E 2680305 E 2680307 E 2680309 E 268031 E	VSXS0232—TB VJPS1154 VJPS0884 (D) VJPS0885 (G) VJPS0885 VJPS0881 VJPS0881 VJPS0883 VSHS0058 VSSS0159 EVQ21309K	CONNECTOR 2P CONNECTOR 15P CONNECTOR 2OP FE CONNECTOR 2P CONNECTOR 8P CONNECTOR 14P SWITCHES LEAF SWITCH-SAFETY TAB MODE SELECT SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH		Q6012 D6008	UN5211 MA111	CHIP CHIP DIODES CHIP MISCELLANEOUS	
1001 V 3001 V (0 V (0 V (0 V (0 V (0 V (0 V (0 V (0 V (0 V (0 V (0 V (0 V (0 (0 (0 V (0 (0 V (0 (0 V (0 (0 V (0 V (0 V (0 V (0 (0 V	VJPS1154 VJPS0884 (D) VJPS0885 (G) VJSS0888 VJPS0883 VJPS0883 VSHS0058 VSSS0159 EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K	CONNECTOR 2P CONNECTOR 15P CONNECTOR 2OP FE CONNECTOR 2P CONNECTOR 8P CONNECTOR 14P SWITCHES LEAF SWITCH-SAFETY TAB MODE SELECT SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH		Q6012 D6008	UN5211 MA111	CHIP CHIP DIODES CHIP MISCELLANEOUS	
3001 V 4001 V 4001 V 6002 V 6201 V 506001 V 506002 V 6201 S 506002 V 506002 V 506300 E 506310 E 506311 E 506311 E 506312 E	VJPS1154 VJPS0884 (D) VJPS0885 (G) VJPS0885 (G) VJPS0881 VJPS0881 VJPS0883 VSHS0058 VSSS0159 EVQ21309K	CONNECTOR 2P CONNECTOR 15P CONNECTOR 2OP FE CONNECTOR 2P CONNECTOR 8P CONNECTOR 14P SWITCHES LEAF SWITCH-SAFETY TAB MODE SELECT SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH		Q6012 D6008	UN5211 MA111	CHIP CHIP DIODES CHIP MISCELLANEOUS	
24001 V V 24001 V P6002 V P6201 V P66002 V P6201 V P66002 V P68000 V P6800 V P68000	VJPS1154 VJPS0884 (D) VJPS0885 (G) VJPS0885 (G) VJPS0881 VJPS0881 VJPS0883 VSHS0058 VSSS0159 EVQ21309K	CONNECTOR 2P CONNECTOR 15P CONNECTOR 2OP FE CONNECTOR 2P CONNECTOR 8P CONNECTOR 14P SWITCHES LEAF SWITCH-SAFETY TAB MODE SELECT SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH		Q6012 D6008	UN5211 MA111	CHIP DIODES CHIP MISCELLANEOUS	
3001 V 4001 V 4001 V 6002 V 6201 V 506001 V 506002 V 6201 S 506002 V 506002 V 506300 E 506310 E 506311 E 506311 E 506312 E	VJPS1154 VJPS0884 (D) VJPS0885 (G) VJPS0885 (G) VJPS0881 VJPS0881 VJPS0883 VSHS0058 VSSS0159 EVQ21309K	CONNECTOR 2P CONNECTOR 15P CONNECTOR 2OP FE CONNECTOR 2P CONNECTOR 8P CONNECTOR 14P SWITCHES LEAF SWITCH-SAFETY TAB MODE SELECT SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH		D6008	MA111	DIODES CHIP MISCELLANEOUS	
24001 V V 24001 V P6002 V P6201 V P66002 V P6201 V P66002 V P68000 V P6800 V P68000	VJPS0884 (D) VJPS0885 (G) VJPS0885 VJSS0888 VJPS0881 VJPS0883 VSHS0058 VSSS0159 EVQ21309K	CONNECTOR 15P CONNECTOR 20P FE CONNECTOR 2P CONNECTOR 8P CONNECTOR 14P SWITCHES LEAF SWITCH-SAFETY TAB MODE SELECT SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH				MISCELLANEOUS	
(4001 V (4001 V (6002 V (6201 V (62	(D) VJPS0885 (G) VJS0888 VJPS0881 VJPS0883 VSHS0058 VSHS0058 EVQ21309K	CONNECTOR 20P FE CONNECTOR 2P CONNECTOR 8P CONNECTOR 14P SWITCHES LEAF SWITCH-SAFETY TAB MODE SELECT SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH				MISCELLANEOUS	
V (4001 V (6002 V (6201 V (7000) V (700	VJPS0885 (6) VJSS0888 VJPS0881 VJPS0883 VSHS0058 VSSS0159 EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K	FE CONNECTOR 2P CONNECTOR 8P CONNECTOR 14P SWITCHES LEAF SWITCH-SAFETY TAB MODE SELECT SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH				MISCELLANEOUS	
(4001 W 6002 V 6201 W 6002 W 6201 W 6001 W 6000 W 6	(6) VJSS0888 VJPS0881 VJPS0883 VSHS0058 VSSS0159 EVQ21309K	FE CONNECTOR 2P CONNECTOR 8P CONNECTOR 14P SWITCHES LEAF SWITCH-SAFETY TAB MODE SELECT SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH				MISCELLANEOUS	
4001 V 6002 V 6201 V 5W6001 V 5W6002 V 5W6302 E 5W6302 E 5W6305 E 5W6306 E 5W6307 E 5W6309 E 5W6311 E 5W6311 E	VJSS0888 VJPS0881 VJPS0883 VSSS0159 EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K	CONNECTOR 8P CONNECTOR 14P SWITCHES LEAF SWITCH-SAFETY TAB MODE SELECT SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH		E35	VMTS0035		
6002 V 6201 V W6001 V W6002 V W6302 E W6302 E W6305 E W6305 E W6306 E W6307 E W6307 E W6307 E W6307 E W6301 I W6311 I	VJPS0881 VJPS0883 VSHS0058 VSSS0159 EVQ21309K	CONNECTOR 8P CONNECTOR 14P SWITCHES LEAF SWITCH-SAFETY TAB MODE SELECT SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH		E35	VNTS0035		
6201 V SW6001 V SW6002 V SW6302 E SW6303 E SW6305 E SW6306 E SW6306 E SW6310 E SW6311 E SW6312 E	VJPS0883 VSHS0058 VSSS0159 EVQ21309K	CONNECTOR 14P SWITCHES LEAF SWITCH-SAFETY TAB MODE SELECT SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH		E35	VMTS0035		
SW6001 \\ SW6002 \\ SW6302 E SW6303 E SW6303 E SW6306 E SW6306 E SW6307 E SW6307 E SW6310 E SW6311 E SW6311 E	VSHS0058 VSSS0159 EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K	SWITCHES LEAF SMITCH-SAFETY TAB MODE SELECT SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH		E35	VMTS0035	CUSHION, RUBBER	
W6002 V W6302 E W6303 E W6305 E W6306 E W6307 E W6309 E W6310 E W6311 E W6312 E	VSHS0058 VSSS0159 EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K	LEAF SWITCH-SAFETY TAB MODE SELECT SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH		E35	VNTS0035	CUSHION, RUBBER	
W6002 V W6302 E W6303 E W6305 E W6306 E W6307 E W6307 E W6309 E W6310 E W6311 E	VSHS0058 VSSS0159 EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K	LEAF SWITCH-SAFETY TAB MODE SELECT SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH					
W6002 V W6302 E W6303 E W6305 E W6306 E W6307 E W6309 E W6310 E W6311 E W6312 E	VSHS0058 VSSS0159 EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K	LEAF SWITCH-SAFETY TAB MODE SELECT SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH					
W6002 V W6302 E W6303 E W6305 E W6306 E W6307 E W6307 E W6309 E W6310 E W6311 E	VSSS0159 EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K	MODE SELECT SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH					
W6002 \\ W6302 E \\ W6303 E \\ W6303 E \\ W6305 E \\ W6306 I \\ W6307 E \\ W6307 E \\ W6309 E \\ W6311 E \\ W6312	EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K	PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH		 		HEAD AMP C.B.A.	
W6302 E W6303 E W6305 E W6306 E W6307 E W6309 E W6310 E W6311 E W6312	EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K	PUSH SWITCH PUSH SWITCH PUSH SWITCH		1 1		(A,B,C,D)	
W6303 E W6305 E W6306 E W6307 E W6309 E W6310 E W6311 E W6312	EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K	PUSH SWITCH PUSH SWITCH PUSH SWITCH		 			
W6305 E W6306 E W6307 E W6309 E W6310 E W6311 E W6312	EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K	PUSH SWITCH PUSH SWITCH					
W6306 B W6307 B W6309 B W6310 B W6311 B W6312 B	EVQ21309K EVQ21309K EVQ21309K EVQ21309K EVQ21309K	PUSH SWITCH				INTEGRATED CIRCUITS	
5W6307 E 5W6309 E 5W6310 E 5W6311 I 5W6312 I	EVQ21309K EVQ21309K EVQ21309K EVQ21309K			102601	AN3809K	IC, LINEAR CYL. DRIVE	
SW6309 E SW6310 E SW6311 E SW6312 E	EVQ21309K EVQ21309K EVQ21309K			103501	AN3361SB	IC, LINEAR HEAD AMP	
SW6310 8 SW6311 1 SW6312 1	EVQ21309K EVQ21309K	PUSH SWITCH	*****	1			
SW6311 I	EVQ21309K	PUSH SWITCH		1			
SW6312		PUSH SWITCH		1		RESISTORS	
		PUSH SWITCH		R2601	ERJ6GEYJ330V	MGF CHIP 1/10W 33	3
om/UUI		SELECT SWITCH		R2602	ERJ6GEYJ330V	MGF CHIP 1/10W 33	
	VSSS0152	OLLEGI SIII IOII		R2603	ERJ6GEYJ330V	MGF CHIP 1/10W 33	
				R2604	ERDS2TJ1R0	mor can	
		CUEF & PROTECTOR		R2605	ERDS2TJ1R0	1,2	
		FUSE & PROTECTOR	A		ERJ6GEYJ561V	MGF CHIP 1/10W 560	
		FUSE 125V 1.6A		R2606			
		FUSE 125V 1.6A		R3501	ERJ6GEYJ473V		
		FUSE 125V 1.6A		R3502	ERJ6GEYJ560V	MGF CHIP 1/10W 50	
	OR XBA1C16NU100			R3503	ERJ6GEYJ560V	MGF CHIP 1/10W 50	
		IC PROTECTOR 1.5A		R3504	ERJ6GEYJ560V	MGF CHIP 1/10W 50	
		IC PROTECTOR 1.5A		R3505	ERJ6GEYJ560V	MGF CHIP 1/10W 50	
	ICP-N38-TP1	IC PROTECTOR 1.5A		R3506	ERJ6GEYJ561V	MGF CHIP 1/10W 560	
	OR UNHOOOGOOA	LC PROTECTOR 1.5A	Δ	R3507	ERJ6GEYJ561V	MGF CHIP 1/10W 560	0
		TRANSFORMER				CAPACITORS	1
T1001	ETS28AD2J3NP		Δ	C2604	ECUV1E104KBN	C CHIP 25V 0.	
,	OR VTPS0041-1		Δ	C2605	ECUV1E104KBN	C CHIP 25V 0.	
	OR VTPS0042-1		Δ	C2606	ECUV1E104KBN	C CHIP 25V 0.	
	E1070F0180			C2607	ECUV1E104KBN	C CHIP 25V 0.	1
				C2608	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.	1
				C2609	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.	1
		JACKS		C2610	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.0	
IK3001	V HS0720	A/V JACK SOCKET		C2611	ECUV1E333KBN	C CHIP 25V 0.03	
JK3001		TV - ONOR OUGHE!		C2612	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.	
	(D)	A/V JACK SOCKET		C2613	ECEA1EKA4R7	ELECTROLYTIC 25V 4.	
	VJHS0727	AV T JACK SUGKET		C2614	ECEA1EKA4R7	ELECTROLYTIC 25V 4.	
	(G)			C2615	ECEA1EKA4R7	ELECTROLYTIC 25V 4.	
	ļ			C3504	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.0	
		PRINTED AIRCUIT PARES AND	EMPLY	_	ECEA1CKA470	ELECTROLYTIC 16V 4	
		PRINTED CIRCUIT BOARD ASS	ENIOL T	C3505			
				C3506	ECUV1E104ZFN		
E10	VEPS0A55A	MAIN CHILD C.B.A.	<u> </u>	C3507	ECUV1H102KBN	C CHIP 50V 1000	
				C3508	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.	
				C3511	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.	
		MISCELLANEOUS		C3512	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.	
				C3513	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.	
E21	VEQS0603	TUNER, UHF/VHF NR		C3519	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.	
E23	EYF52BC	FUSE HOLDER		C3520	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.	1
E24	VEKS5615	LED HOLDER/INFRARED RECEIVER		C3524	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.	1
E67		UNIT		C3525	ECUV1E104ZFN	C, CHIP +80%-20% 25V 0.	1 /
E26	VCRS0215	IC, HYBRID MITS/SAP AUDIO		Ç3528	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.	
E26	VCH30213	PROCESS		C3529	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.0	
	1(0)	FNOCESS		C3529	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.	
	(G)						
				C3533	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.0	4
				1			
				1			1. No. 11. 11.
						COILS	
				L3501	ELESN101KA	10	0
	1						
	+				1		T

(E22)

Remarks

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Rema
		PIN HEADERS		-	-	COILS	
P3501	VJSS0885	CONNECTOR 15P		L3501	ELESN101KA	100	
				L4401	VLQSH02R101K	100	
		THE STATISTICS OF THE STATE OF					
		Hi-Fi AUDIO/VIDEO HEAD AMP C.B.A.				PIN HEADERS	
	ļ	(E,F,G)		P3501	VJSS0886	CONNECTOR 20P	
	 	(Li, i, u)		1 3301	143330000	CONNECTION 201	
		product.					
		INTEGRATED CIRCUITS				JUNCTION C.B.A.	
IC2601	AN3809K	IC, LINEAR CYL. DRIVE		ļ			
1C3501	AN3361SB	IC, LINEAR HEAD AMP IC, LINEAR HI-FI AUDIO HEAD		-	 	RESISTORS	
IC4401	AN3328S	AMP		R2531	ERDS2TJ270	NESISTONS 27	
		, with	* *				
		RESISTORS				CAPACITORS	
R2601	ERJ6GEYJ330V	MGF CHIP 1/10W 33		C2531	ECEA1CKA220	ELECTROLYTIC 16V 22	
R2602	ERJ6GEYJ330V ERJ6GEYJ330V	MGF CHIP 1/10W 33 MGF CHIP 1/10W 33		C2532 C2533	ECEA1CKA220 ECEA1CKA220	ELECTROLYTIC 16V 22 ELECTROLYTIC 16V 22	
R2603 R2604	ERDS2TJ1R0	MOF CHIP 1/10W 33		02333	EULH I UNAZZU	10V 22	
R2605	ERDS2TJ1R2	1.2					
R2606	ERJ6GEYJ561V	MGF CHIP 1/10W 560				PIN HEADERS	
R3501	ERJ6GEYJ473V	MGF CHIP 1/10W 47K		P2531	VJSS0884	CONNECTOR 14P	
R3502	ERJ6GEYJ560V	MGF CHIP 1/10W 56					
R3503	ERJ6GEYJ560V	MGF CHIP 1/10W 56 MGF CHIP 1/10W 56		—	-	ELECTRICAL PARTS	
R3504 R3505	ERJ6GEYJ560V ERJ6GEYJ560V	MGF CHIP 1/10W 56			1	LOCATED ON CHASSIS	
R3506	ERJ6GEYJ561V	MGF CHIP 1/10W 560					
R3507	ERJ6GEYJ561V	MGF CHIP 1/10W 560		I C2501	AN3845SC	IC, LINEAR CAP./LOADING DRIVE	
R4405	ERJ6GEYJ102V	MGF CHIP 1/10W 1K					
R4406	ERJ6GEYJ180V	MGF CHIP 1/10W 18		E22	VJAS0195-FS	AC CORD KIT W/PLUG	Δ
R4407	ERJ6GEYJ561V	MGF CHIP 1/10W 560		E22	(A, C) VJAS0195-F	AC CORD W/PLUG	Δ
ļ	-			L-22	OR VJAS0199-K	AC CORD W/PLUG	Δ
		CAPACITORS			(B, D, E, F, G)		
C2604	ECUV1E104KBN	C CHIP 25V 0.1					
C2605	ECUV1E104KBN	C CHIP 25V 0.1		<u> </u>		CUMPANY OF REALITED AN	MADEDO
C2606	ECUV1E104KBN	C CHIP 25V 0.1 C CHIP 25V 0.1				SUMMARY OF "E" ITEM NO REFER TO ELECTRICAL P	
C2607 C2608	ECUV1E104KBN ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1		-	-	FOR MODEL INFORMATIO	
C2609	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1					
C2610	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.01		E1	VEPS6040GA	MAIN C.B.A.	
C2611	ECUV1E333KBN	C CHIP 25V 0.033		E1	VEPS6040GB	MAIN C.B.A.	
C2612	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1		E1	VEPS6043GA	MAIN C.B.A.	
C2613	ECEA1EKA4R7 ECEA1EKA4R7	ELECTROLYTIC 25V 4.7 ELECTROLYTIC 25V 4.7		E1	VEPS6040HA VEPS6040HF	MAIN C.B.A.	
C2614 C2615	ECEA1EKA4R7	ELECTROLYTIC 25V 4,7		E1	VEPS6043HA	MAIN C.B.A.	
C3504	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.01		E6	VEPS5011A	HEAD AMP C.B.A.	
C3505	ECEA1CKA470	ELECTROLYTIC 16V 47	-	E6	VEPS5010B	HI-FI AUDIO/VIDEO HEAD AMP	
C3506	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1			1/55001051	C. B. A.	
C3507	ECUV1H102KBN	C CHIP 50V 1000P C CHIP +80%-20% 25V 0.1		E7	VEPS0A25A VEPS0A55A	JUNCTION C.B.A.	
C3508 C3511	ECUV1E104ZFN ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1		E21	VEQS0603	TUNER, UHF/VHF NR	
C3512	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1		E22	VJAS0195-FS	AC CORD KIT W/PLUG	Δ
C3513	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1		E22	VJAS0195-F	AC CORD W/PLUG	Δ
C3519	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1		E22	VJAS0199-K	AC CORD W/PLUG	Δ
C3520	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	:	E23	EYF52BC	FUSE HOLDER LED HOLDER/INFRARED RECEIVER	
C3523	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1 C CHIP +80%-20% 25V 0.1		E24	VEKS5615	UNIT	-
C3524 C3528	ECUV1E104ZFN ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1		E25	VEKS5607	DISPLAY TUBE/INFRARED RECEIVER	
C3529	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.01				UNIT	
C3532	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1		E26	VCRS0215	IC, HYBRID WTS/SAP AUDIO	
C3533	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.01				PROCESS	
C4401	ECUV1H102KBN	C CHIP 50V 1000P		E35	VMTS0035	CUSHI ON, RUBBER	
C4402	ECUVIHIO2KBN	C CHIP +80%-20% 50V 0.01			-		-
C4405	ECUV1H103ZFN ECUV1H472KBN	C CHIP +80%-20% 50V 0.01 C CHIP 50V 4700P					
C4406 C4408	ECEA1CKA100	ELECTROLYTIC 16V 10					
C4409	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.01					
C4411	ERJ6GEY0R00V	MGF CHIP 1/10W 0	•				
C4412	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1					
C4413	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1		-	1		
C4414	ECEA0JKA470	ELECTROLYTIC 6.3V 47					<u> </u>
							
	+				1		1
					-		-

rvice Man

Effective from: COMMON

Video Product

Model No. See below

Subject: Service Manual Correction

Supplement Please use this manual together with the Service Manual for Order No. MKS9801M301; Model No. PV-8400/ PV-8400-K/ PV-8401/ PV-8450/ PV-8450-K/ VHQ840/ VHQ860.

Please correct the Service Manual as follows.

Electrical Replacement Parts List

The Electrical Replacement Parts List have been corrected as follows.

Ref. No.	Original Part No.	New Part No.		Part Name		Model	Remarks
R4101	ERJ6GEYJ184V	ERJ6GEYJ224V	MGF CHIP	1/10W	220ΚΩ	All models	
R4102	ERJ6GEYJ393V	ERJ6GEYJ333V	MGF CHIP	1/10W	3 3ΚΩ	All models	
R6009		ERJ6GEY0R00V	MGF CHIP	1/10W	0Ω	G	
R6018		ERJ6GEYJ102V	MGF CHIP	1/10W	1ΚΩ	E, F	*1
						G	
R6029		ERJ6GEYJ103V	MGF CHIP	1/10W	10ΚΩ	G	
R6036		ERJ6GEYJ101V	MGF CHIP	1/10W	100Ω	A, B, C, E, F	*1
,,,,,,,,						D, G	
R6040		ERJ6GEYJ103V	MGF CHIP	1/10W	10ΚΩ	A, B, C, E, F	*1
110010						D, G	
R6041		ERJ6GEYJ103V	MGF CHIP	1/10W	10ΚΩ	A, B, C, E, F	*1
110011	_					D, G	
R6042		ERJ6GEYJ103V	MGF CHIP	1/10W	10ΚΩ	A, B, C, E, F	*1
1100-12						D, G	
R6043		ERJ6GEYJ103V	MGF CHIP	1/10W	10ΚΩ	A, B, C, E, F	*1
1100-70		ERJ6GEYJ223V	MGF CHIP	1/10W	22ΚΩ	D, G	

^{*1:} These have been changed on running change basis.

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK		
PV-8400	Α		
PV-8400-K	В		
PV-8401	С		
VHQ840	D		
PV-8450	E		
PV-8450-K	F		
VHQ860	G		

Model No. PV-8400/ PV-8400-K/ PV-8401/ PV-8450/ PV-8450-K/ VHQ840/ VHQ860 PV-8200/ PV-8200-K/ PV-8402/ PV-8451/ PV-8451-K/ PV-8455S/ PV-8456-K PV-8552-K/ PV-8553-K/ VHQ820

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic./Quasar.

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Ref. No.	Original Part No.	New Part No.		Part Name	•		Model	Remarks
R6044		ERJ6GEYJ103V	MGF CHIP		1/10W	10ΚΩ	A, B, C, E, F	*1
		ERJ6GEYJ223V	MGF CHIP	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1/10W	22ΚΩ	D, G	art get ø
R6045		ERJ6GEYJ103V	MGF CHIP	e, si	1/10W	10ΚΩ	A, B, C, E, F	*1
		ERJ6GEYJ223V	MGF CHIP		1/10W	22ΚΩ	D, G	
R6046		ERJ6GEYJ103V	MGF CHIP		1/10W	10ΚΩ	A, B, C, E, F	*1
		ERJ6GEYJ223V	MGF CHIP		1/10W	22ΚΩ	D, G	
R6047		ERJ6GEYJ103V	MGF CHIP		1/10W	10ΚΩ	A, B, C, E, F	*1
		ERJ6GEYJ223V	MGF CHIP		1/10W	22ΚΩ	D, G	
R6048		ERJ6GEYJ103V	MGF CHIP		1/10W	10ΚΩ	A, B, C, E, F	*1
		ERJ6GEYJ223V	MGF CHIP		1/10W	22ΚΩ	D, G	
R6049		ERJ6GEYJ103V	MGF CHIP		1/10W	10ΚΩ	A, B, C, E, F	*1
		ERJ6GEYJ223V	MGF CHIP		1/10W	22ΚΩ	D, G	
R6050		ERJ6GEYJ103V	MGF CHIP		1/10W	10ΚΩ	A, B, C, E, F	*1
		ERJ6GEYJ223V	MGF CHIP		1/10W	22ΚΩ	D, G	
R6071		ERJ6GEYJ102V	MGF CHIP		1/10W	1ΚΩ	E, F	*1
							G	
R6072		ERJ6GEYJ102V	MGF CHIP		1/10W	1ΚΩ	D, G	
R6076		ERJ6GEYJ102V	MGF CHIP		1/10W	1ΚΩ	D, G	
R6079		ERJ6GEYJ102V	MGF CHIP		1/10W	1ΚΩ	D, G	
R6111		ERJ6GEYJ223V	MGF CHIP		1/10W	22ΚΩ	G	
R6112		ERJ6GEYJ223V	MGF CHIP		1/10W	22ΚΩ	G	
R6115		ERJ6GEYJ473V	MGF CHIP		1/10W	47ΚΩ	A, B, C, E, F	*1
		ERJ6GEYJ102V	MGF CHIP		1/10W	1ΚΩ	D, G	
R6116		ERJ6GEYJ473V	MGF CHIP		1/10W	47ΚΩ	A, B, C, E, F	*1
		ERJ6GEYJ102V	MGF CHIP		1/10W	1ΚΩ	D, G	
R7004	ERJ6GEYJ102V	ERJ6GEYJ103V	MGF CHIP		1/10W	10ΚΩ	D, G	
C1010	ECUV1H101JCM	ECUV1H101JCN	C CHIP	+-5%	50V	100PF	A, B, C, E, F	*1
							G	
	ECUV1H101JCM	ECUV1H103KBN	C CHIP		50V	0.01μF	D	
C1032		ECEA0JKA221	ELECTROLY	/TIC	6.3V	220µF	D, G	
C3059		ECUV1H020CCN	C CHIP	+-0.25PF	50V	2PF	A, B, C, D, C	à
C3105	ECUV1H103ZFN		C CHIP	+80%-20%	50V	0.01μF	All models	
C3312		ECUV1H100CCN	C CHIP	+-0.25P	50V	10PF	D, G	
C7007		ECUV1E104KBN	C CHIP		25V	0.1μF	D, G	
C7011		ECUV1H820JCN	C CHIP	+-5%	50V	82PF	D, G	
L3301	ELESN101KA	JUMPER WIRE	JUMPER WI	RE	(not s	upplied)		
L4101	JUMPER WIRE	ELESN471KA	COIL				All models	
L7003		ERJ6GEY0R00V	MGF CHIP		1/10W	0Ω	All models	*1
L7004		ERJ6GEY0R00V	MGF CHIP		1/10W	Ω0	All models	*1
L7005		ERJ6GEY0R00V	MGF CHIP		1/10W	Ω0	All models	*1
J1003		ERJ8GEY0R00Z	MGF CHIP		1/8W		A, B, C, E, F	*1
							D, G	

These have been changed on running change basis

Mechanical Replacement Parts List

The Mechanical Replacement Parts List have been corrected as follows.

Ref. No.	Original Part No.	New Part No.	Part Name	Model	Remarks	
121	VPGS4311	VPGS4362	PACKING CASE, PAPER	Α	*1	
	VPGS4313	VPGS4364	PACKING CASE, PAPER	E	*1	

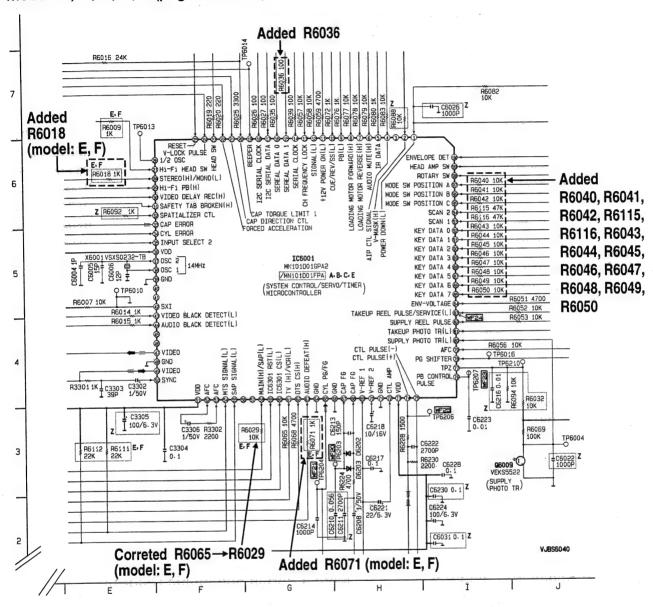
^{*1:} These have been changed on running change basis.

Schematic Diagrams

The Main I/ II/ Schematic Diagram on pages 3-2 ~ 3-11 have been corrected as follows.

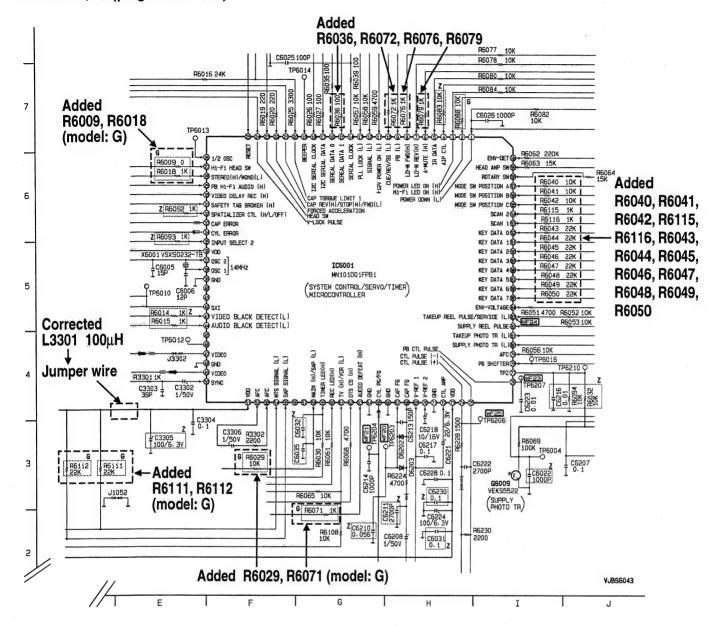
Main I Partial Schematic Diagram

Model: A, B, C, E, F (page 3-2 ~ 3-3)



Main I Partial Schematic Diagram

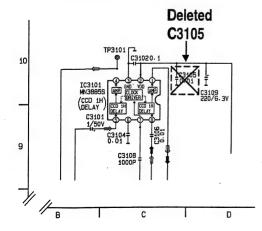
Model: D, G (page 3-6 ~ 3-7)



Main II Partial Schematic Diagram

Model: A, B, C, E, F (page 3-4)

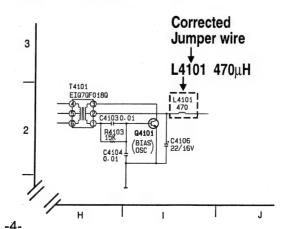
Model: D, G (page 3-8)



Main II Partial Schematic Diagram

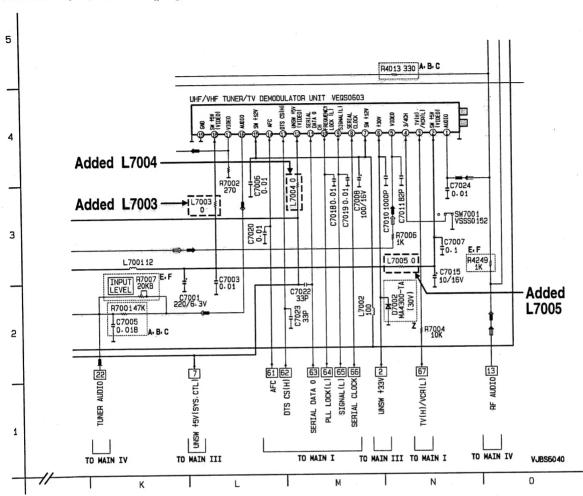
Model: A, B, C, E, F (page 3-5)

Model: D, G (page 3-9)



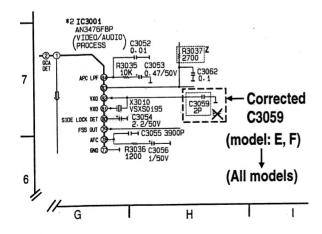
Main II Partial Schematic Diagram

Model: A, B, C, E, F (page 3-5)



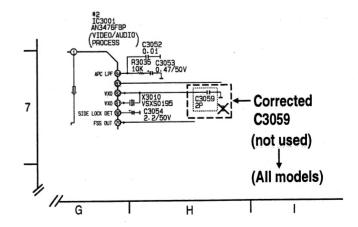
Main II Partial Schematic Diagram

Model: A, B, C, E, F (page 3-4 ~ 3-5)



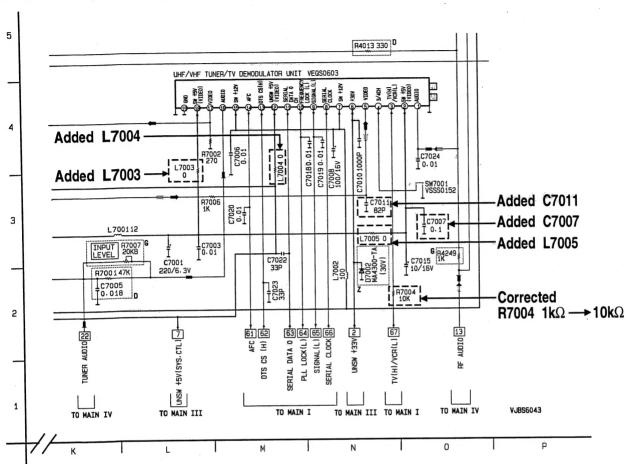
Main II Partial Schematic Diagram

Model: D, G (page 3-8 ~ 3-9)



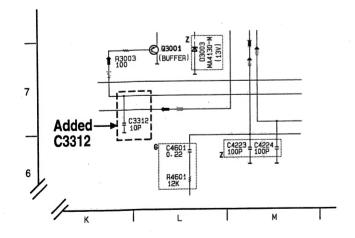
Main II Partial Schematic Diagram

Model: D, G (page 3-9)



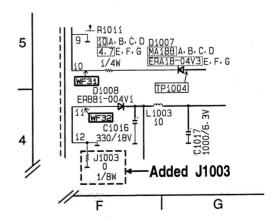
Main II Partial Schematic Diagram

Model: D, G (page 3-9)



Main III Partial Schematic Diagram

All models (page 3-10)



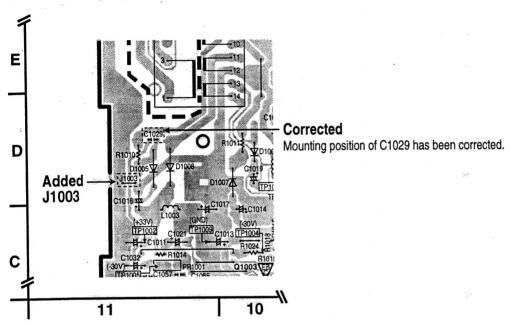
Circuit Board Layout

The Circuit Board Layout of Main C.B.A. on pages 4-1 ~ 4-2, 4-5 ~ 4-6 have been corrected as follows.

Main Partial Circuit Board Layout

Model: A, B, C, E, F (page 4-1)

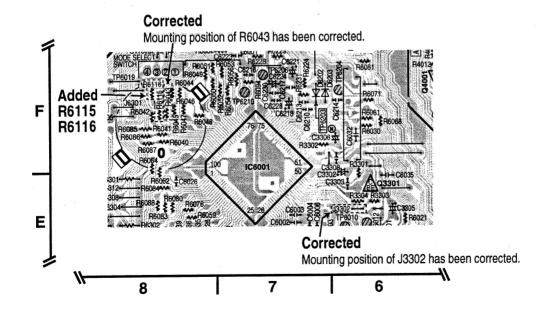
Model: D, G (page 4-5)



Main Partial Circuit Board Layout

Model: A, B, C, E, F (page 4-1)

Model: D, G (page 4-5)



Main Partial Circuit Board Layout

Model: A, B, C, E, F (page 4-2)

Model: D, G (page 4-6)

